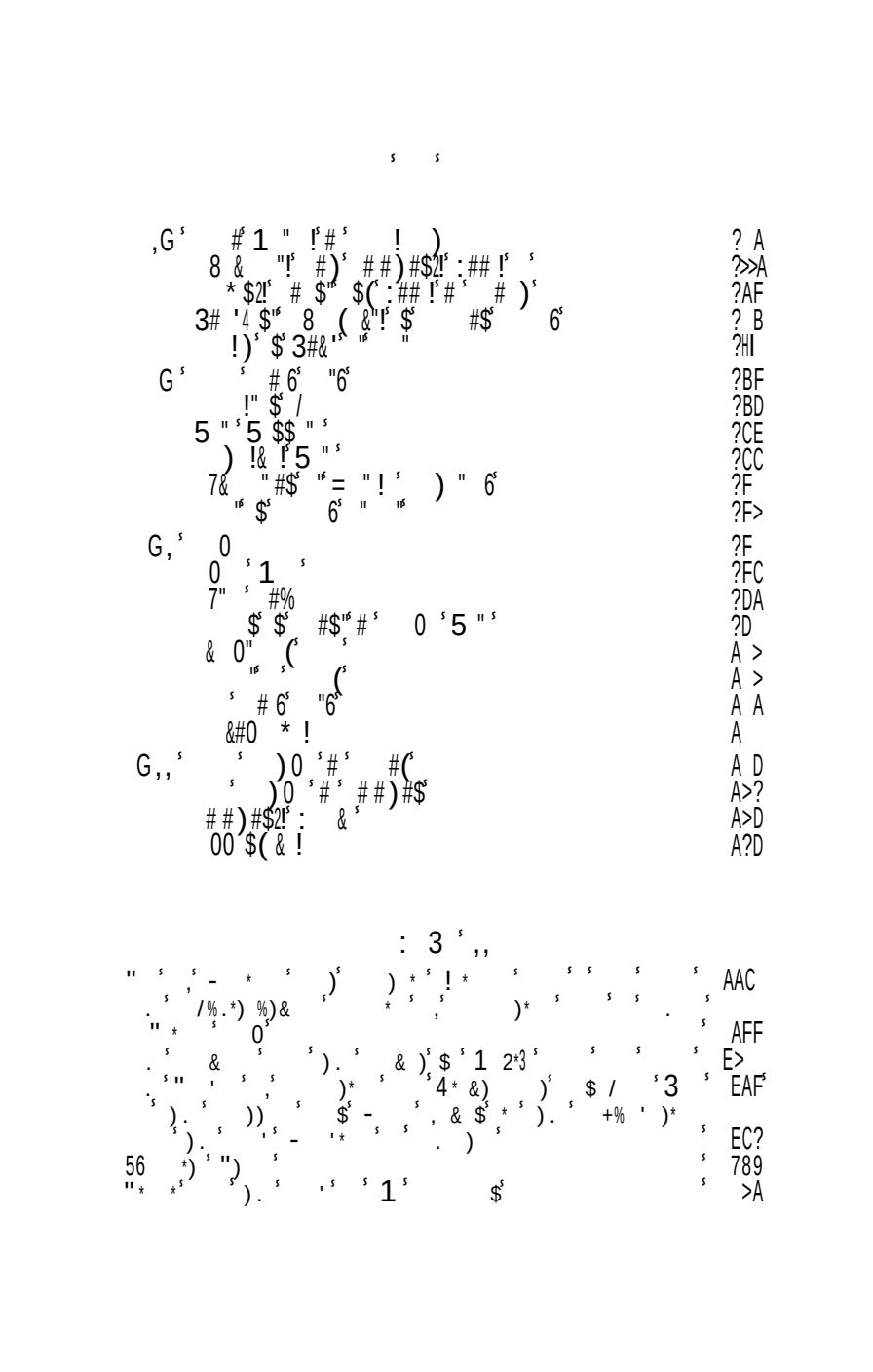
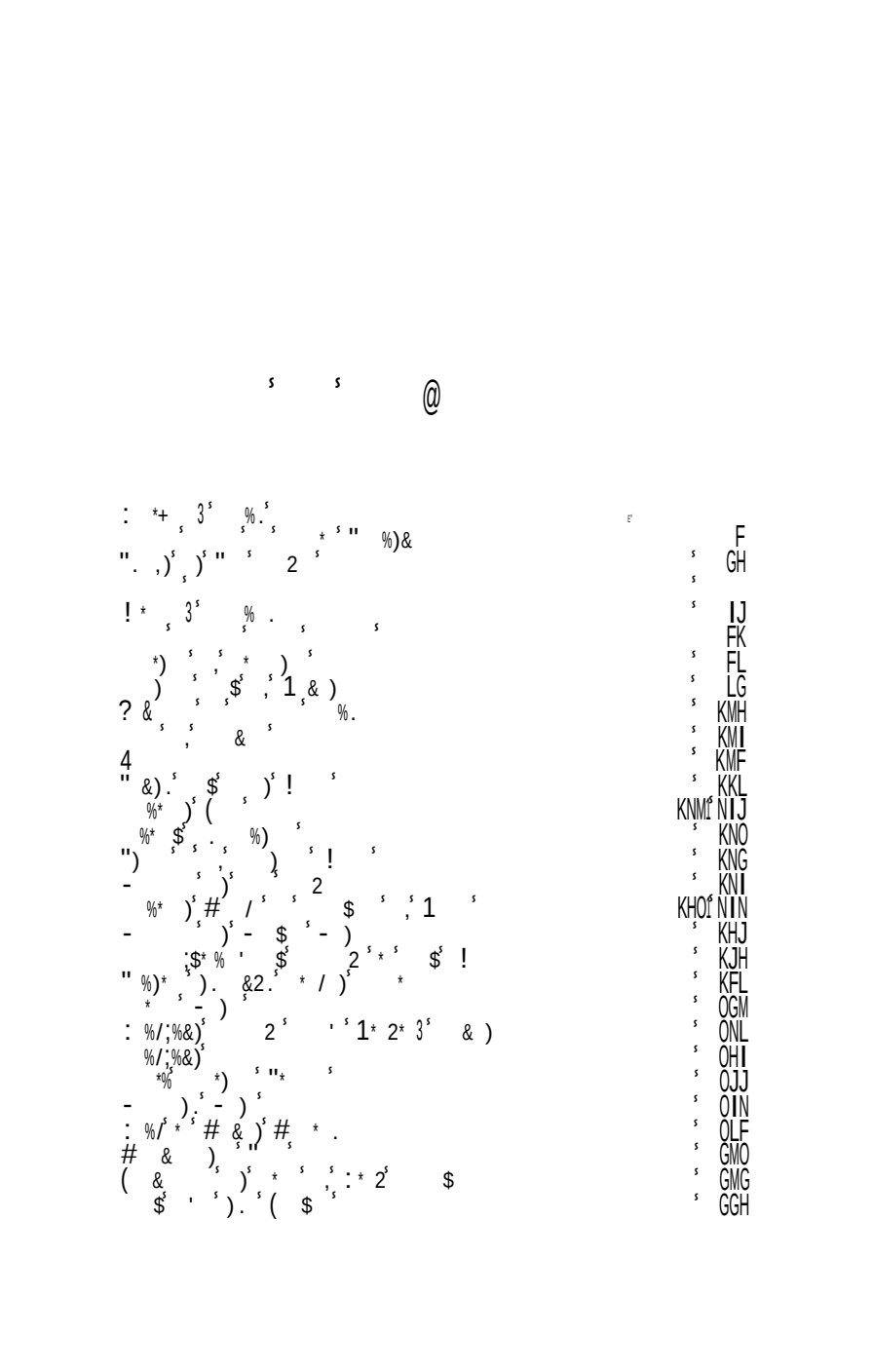
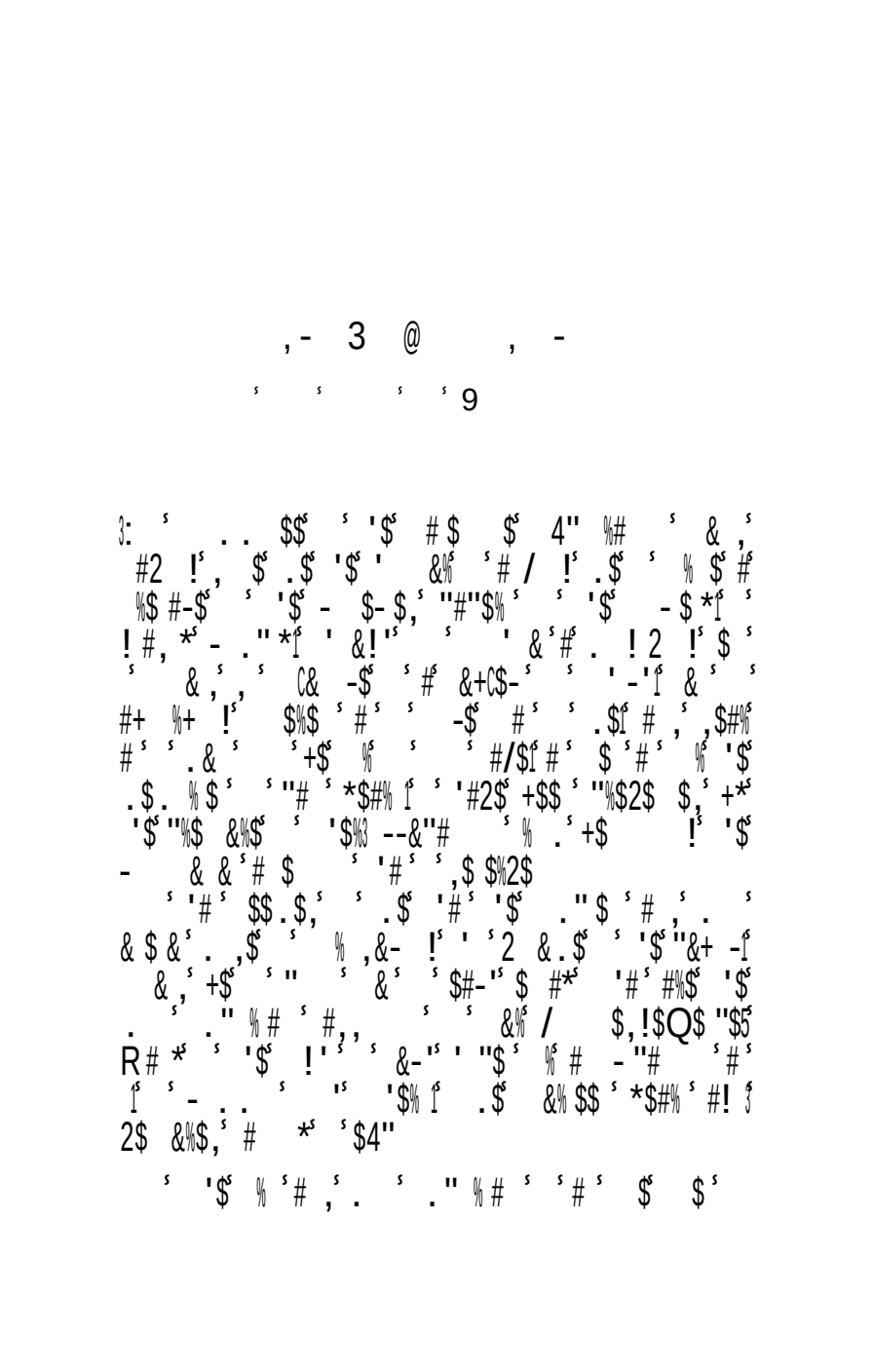
00058730

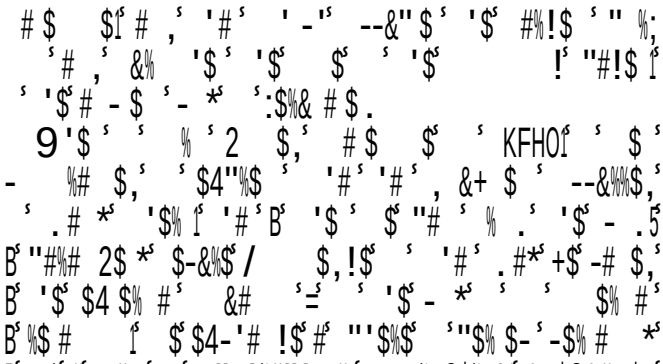
Digitized with financial assistance from the
Government of Maharashtra
on 18 July, 2018

ſ ſ ſ









'#, +$ -#%% $,   '$ # # -$ ' $
 '$ " +& " $ '$ #+ &%, + #- $
'% '$ #* %/ +* '# !& #% &
 -%# ! ! %# -$ # , &" * ' - -# * +$
 & , % $ # Q %/ . $ ' B $% - & ,
B 2% !$ '$,$# ,%& . . $, '$ % '$#,
B '# %/ ! & , . #/$ '$. #% . 7 " IK)
 &%/ ' , ! #% $ +$ $2 ! '# '$ #-%$, % -/
$ '$ " $#2$ # "# . 5 %$$ % . '$
% ' - ' "% !# ' '$ % 2$% $#% ' # ,
 ' # %$#, * "%$ $ -$ % $2#, ! 2%* %$S&$ =
 "" GF NK)
 '$ %$#,$% ' $ $ "#!$ +$ - ."$ # $,
+* +$! '& $ #+ $, %. '$ #-S&# # -$
&-' ! , # , % $, % $, # 9#%%$ # ,
' # ' & -'# $ $%!$# % $ 9$ %&
'# ' $* #%$ - ."$ # $, +* '$ %$ & ' $ %
#+ &%
 ' $ $ +% $ * &%

 K '$ % ! # . & & ' '$ ' $ & ,$% #/ !
&"" $, +* '$ +$ $2 $ ' &%,$
 & # -$% # '$+$. $# +% ! ! # $%
 ' $ ' % *- * '$ # $% ' ' ! 2$
'$ $4-$ $ %, # -$ &%2$* #-- ." '$, & ,$%
'$ #& " -$ #" # 9 # , '$ $ #+ %# $

 L , ! * " 6 $* "# $(" " $& & ! #* !"! !)
*&" #$! 6 "# * $ " ("# % # HOO F?/ ? MI

'$%$ #%$.$ "% ' , - 2$%$,' ' '$ %.' '
'$ # - $ ' & $ ' "' KMJ)
'$%$ ' # ' '$ # & , !' %2 # ' ' $'
. . $ $ '$!' ' ' '$ $." $ # ' #+ 2$ '$
U$,% ' # $*' "' KFI)
H' .$ #"'% 4 .# ' ' '$,# $ ' '$ # '
' '$ $." $ '# ' +$$ ' .#,$ +*' '$, - 2$%* '
'$ &"'' $,' ' $ - # ' -'#%#- $% ' .#%/$,' ' %$,'
"# & ' ' '$ % &% #-$ "' KGF)
J' '$ $%$!', - 2$%* +*' %' + ' '
'# ' '$ &"'' $,' ' +$ '$ #%-' ' '$ +% ,!$ ' -'
$% %#2$ $% ' .&-' - $ $,' '# ' '+$$ ' ,$,
$ *' - %.$,' +*' '$, - &%$ ' ' %$. # !'
%#! . $ ' "'' LH5KMO)
I' '$ ' $' %*' ' '$ -#% !%#"' '* ' :$%&,
$. ' ' % '$ % ' .$ - $#% * $' % ' ' ' '
'# ' %$#-'$,' ' +$ ' & %# ' ' '$.#"' # ,
- &%' ' % '$ % ' .$ "&+ '$,' "'' OF1GO)
' ' ." + $ ' - - &,$ ' '+% $' # $. $ ' '
'$ %$ & ' ' ' '#% ' ' '$ &+C$- ' ' & ' !'
'$ / , * # ,' C& ' #"'%$- # ' ' '$ '%$$ -' $'
$4" %$% ' ' '$ $% #' " !%#"' '* ' :$%& # $. '
% ' #. ' % ' + ' # ,' % ' $%!&! '
"' OFJ)' '$%$ ' %$. # ' .&-' ' +$, $ '$
. + ' ' '$ U ! ' '#2$ *$ ' ' +$ & ,' #' '$*'
. & ' +$ & ,' . $ '$%$ ' ' '$ # '$ #%$#
' '$ B V + $ # - &#%*' '# ' *$ ' ' +$ $4" %$,'
' % &!' *' '$ $4#-' - &% $ ' '$ # ' ' ' +$

%& ' ' '#' '')' !#2$.&-'' #,, #' $%$ ' '
'$ S&$ ' &' '#' ' $ '# ,' ' $$. ' '. $'
. ' ,$- 2$ ' '$,$ -# ' ' '$ & # '1'
#+ !#'' '' '$ & # ' ' #''$% #&. ' +*' '$
, - 2$%*' '#' '$ %#-/' % & ,' '$ % -/' U'#'
$'' ' #' #S&$,&-' -#%% !' '$ # $%' ' '$
& # ' ' '$ '' # ' ' >$ $ #%$ '' '' GNL)'
' '#' -$ $ $2# $' '$ - # . ' ' $' & .' ' +$
'$# - $ ' #''$% #&. ' ' '$ 2$%*' ' !'$ '%# /
O' ' %$!#%, ' ' %#8 ' '$,$ -# ' ' '
'' '$ %& ' 'U$%#8$'' '#,'+$$ ' !' *' , -# $,'
+*' '$% ' +&' '$%$ #!# ' ' ' &+ # # $,' . %$
% . *' '#' '$%$ %$
G' '$,$ $%. # ' ' '$ $ ' $' # &%# *'
$#2$ ' U'#' *$'' %' '$5 %$ =3.' $ ' #,#' '
.#*'+$, &+ $,' #' #'' # ' 9 ' ''% ''$% *' %$. , '
& ' '$ '$%' '$ ' # ' ' ' '' #-$' ' '#'
#. $' &' ' '$%$ +$ # 9$ $% ' #' $ ' #' # '
$% ' U'#' *$'' $%' #' $
N' '$%$' ' # '$%' '' ' ' ' _'' ' '# '+$$ '
$4 %$. $ *' -& ' '#%% 2$ #' # *' 4$,'- - & Q'
'$ -$ $ ' '$,$. #- ' # ,' '$ $
'$, -& *' ' ' '# *'' ' '' '#''%$- '' -$7
,' B . + 7 $#% '$ #/$ ' '$ $# $% ' ,$'
%' ' # ,' %,' , #*, $% ' '$ %''% $,'
#-- & ' % .' $#-'' '$%' ' $''#%# $ ''#% $ ' ,'
% '' %#2$ $% ' KFJK' # ,' ' KFJG' ' '$ %'
''% 2# $ #-- & ' - . . & -# $,' ' .$' # ' , $% % .

$#-'ˢ '$%ˢ # ,ˢ % .ˢ 'ˢ ˢ"&+ '$,ˢ #-- & ˢ
$% ' ˢ $ # ! $. $ ˢ ˢ & ,ˢ +ˢ %# 'ˢ ˢ #*ˢ
'#ˢ #'' # ˢ 9 ˢ ,$ -# ˢ ˢ 'ˢ ˢ
'ˢ 'ˢ $ %# -ˢ ˢ 9#,*ˢ $. #/'ˢ ˢ ' -'ˢ 'ˢ
#!%$$ˢ 'ˢ %ˢ ' . ˢ # , ˢ %ˢ #-!%$! %)ˢ ˢ
/$ *ˢ # ,ˢ &ˢ ˢ . & ˢ +ˢ #/$ˢ #ˢ 'ˢ . ˢ
-#%$ &ˢ '#ˢ'#ˢ +$$ˢ .#,ˢ ""ˢ GJFˢ GJL)1

ˢ 'ˢ - ."#%# 2ˢ #+ $ -ˢ ˢ#%-' $- &%#ˢ %$;
. # ˢ ˢ # $ ˢ ˢ, &+ $ ˢ ˢ %$# ˢ '*ˢ ˢ ˢ
, -& ˢ ˢ %$!#%,ˢ 'ˢ $4" %# ˢ ˢ 'ˢ *ˢ # ˢ
'ˢ 'ˢ #.ˢ #%-'#$! -#ˢ $%$ ˢ ' -'ˢ ˢ$4- $,ˢ
ˢ %$ "$-ˢ ˢ >%$$-$ˢ . $ˢ #ˢ %ˢ # ,ˢ 'ˢ
- $ˢ ˢ 'ˢ !% ˢ # ,ˢ &"'%# $ ˢ ˢ '$%ˢ ˢ
$ &!'ˢ ˢ 'ˢ $. " $ˢ ˢ 'ˢ ' *ˢ . & # ˢ7 ˢ
$% . ˢ ˢ 'ˢ . +ˢ ˢ 'ˢ 2# $*ˢ ˢ 'ˢ U$,% ˢ
ˢ 'ˢ %$-$ *ˢ, - 2$%$,ˢ * #! !&$ˢ #ˢ $ % ˢ # ,ˢ
$ˢ &. ˢ # ,ˢ ˢ 'ˢ . # %*ˢ ˢ 'ˢ # ˢ ˢ 'ˢ
- &#% $ˢ :$%& # $. ˢ # ,ˢ $+% ˢ ˢ,$ $%2$ #ˢ
- ." $ˢ 2$!# ˢ0 # ,ˢ #%,ˢ ' ˢ# ˢ$4-$ $ ˢ
$'ˢ ˢ .#,ˢ ˢ %ˢ " $% ˢ"#"$%ˢ "ˢ GFF)

?ˢ & ˢ,ˢ ? !&$ˢ $ #*ˢ ˢ 'ˢ #&%# ˢ ˢ 'ˢ
. ˢ - $ -ˢ#-- & ˢ $" $ ˢ ˢ ! 'ˢ ˢ '#ˢ
. * $% & ˢ , % - ˢ ˢ & '$,ˢ # $ # , #+%&"ˢ
- - & ˢ ! 2$ ˢ#"$-& #% $%$ ˢ '$%$ -# ˢ'#2$
+$$ˢ $ˢ - -$% $,ˢ ˢ '$ $4" %# ˢ ˢ # $ $
< ' ˢ , ˢ ˢ $$ˢ# '% ˢ ˢ * ."# '*ˢ '$ ˢ# . ,

Lˢ +ˢ $ ˢ $(ˢ : !" $ /.ˢ 0ˢG

'$ ' %% % ' '$ -#% #!$# $% '$ +# $ ' 9 % '
'$* -#.$ ' '$ # $- ! #%%# 2$ ' '$ -$ $ '
' -' '$ -' 2# % & ' %& # ' % -$ $,$% * # ;
& -$,' ' '$ & ',$! $ '$ #,' , ! ' '#'
#. ! ' '$ / $,' #, ' & ,$,' - . '$ -#.$ '
$,' '$ % '+ ,* '#' '$ &,' , & ,' +$ '#'
' '+% '$%

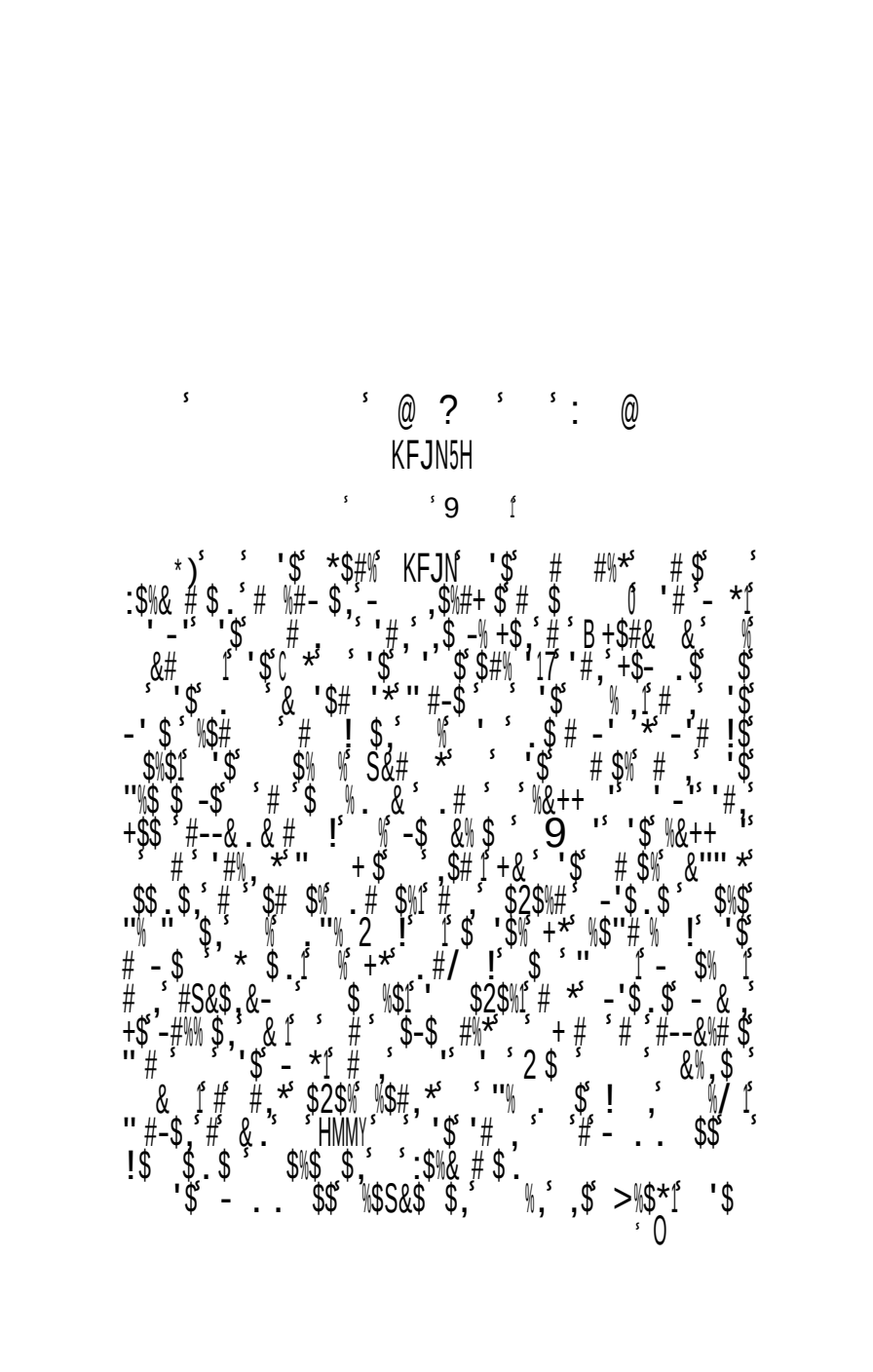
?' '$ %, # -$ &%2$* ' #$ $ # ' '
+2 &'#,& * % '$! '' # ' ' & ,$% #/$'
'#' ' ' $$, $ ' ' $ ' ' ' . '' % # -$' '
' '$%$ %$ * % !',' '#' ' ' 2 &.$ ' &,'
- # '# #%%# 2$ ' '$. ,$ ' ' -' '$ %/
#'- ,&- $,' +* $& $ # ' ,$% ' B'# , .$
B'!$.$ % - # ' ' '- & , ' $# * # ' ' / !'
B' '$ %& '' ' $ ' '$* $%$ $ ' ' .$# &%$ '$
B'- . %*7 ' & $ '$' #''''*'S& # ' % .'. $''' &'
''%$ 4$,' ' '$ -'#'' $%) ' $,$' '$ $%$ ' ' '$
!$ $%#' #%%# 2$ '''' NGF5N I K)' ' .#* +$ % ''
' $ ' -# ' ''$- #' # $ ' ' '$ %$. #%/ ' '
'# '# ,':#- + ' 9$ ' '' NJG5NJH)

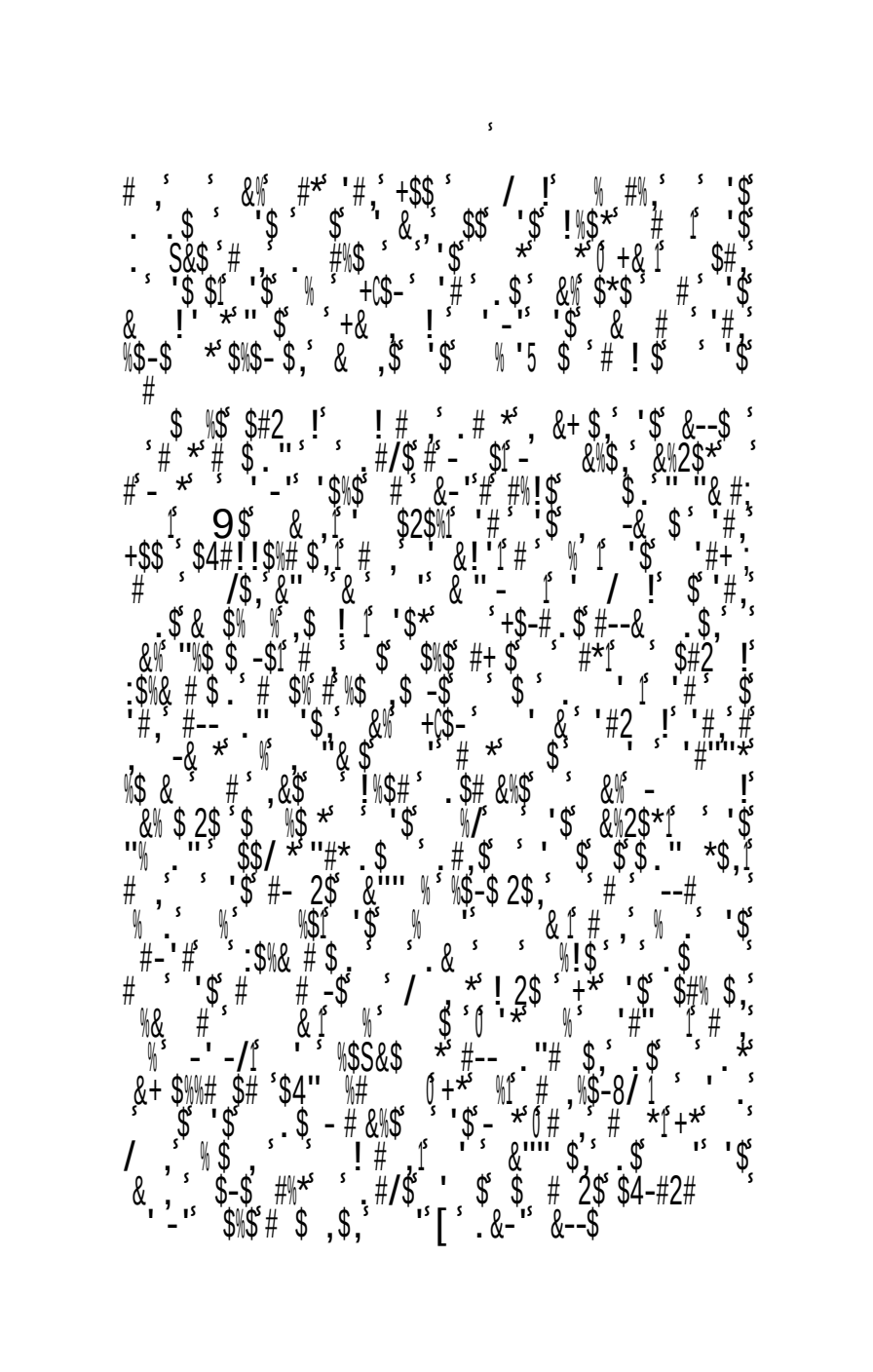
? ' '$ +C$- ' ' '' $%*Q ,$ -% +$,' +* %'
'$ $%Q ''$ ' #' $ ' '' '$%$' #-%$,' #%-'C$!*
' '$% ' # . ' & &-'$,0 '$ ''$-& #% * ' ' $
' '$ $#% * '% # '$%#' $$. ' $ ' % '' - !
' # ' '$3, - 2$% $ ' - $- $,' '' '$
$ $ 4'' %# ' & ,' '# ' ' '$ #+ $
$' ' ' +$. ' . CC % # ' '& , &+ $, * '#

%$.# ˙ ˙+$˚ $0 # ˚ ˙ ˙ ˙ %˚$% ˙ .&#$˚
˚ &%$˚ '$˚- ."$ ˙ '#˙ '˚ # .$ ˙ ˙
!2$ ˙ ˙'$˚ %˚ #*˚ '#˙- ."$ ˙+$˚ % '*˚
˙ '$˚ +$! !˚ % '*˚ ˙ '$˚ ˚$ # !#+ $˚ 8$#˙
˚ #+ &%˚ '-'˙ % ˙ $˙ ˙ ˙ '˚ $ ˙ %& #,$˚
% '*˚ ˙ '$˚ *˚ # ˚ # ˚ '$˚ *˚ %*˚
'-'˙ ˙ ˙ $,$,˙ ˙ & %# $˚# ˚$&- ,#$

ʻ

3





!" # ‘ ‘$

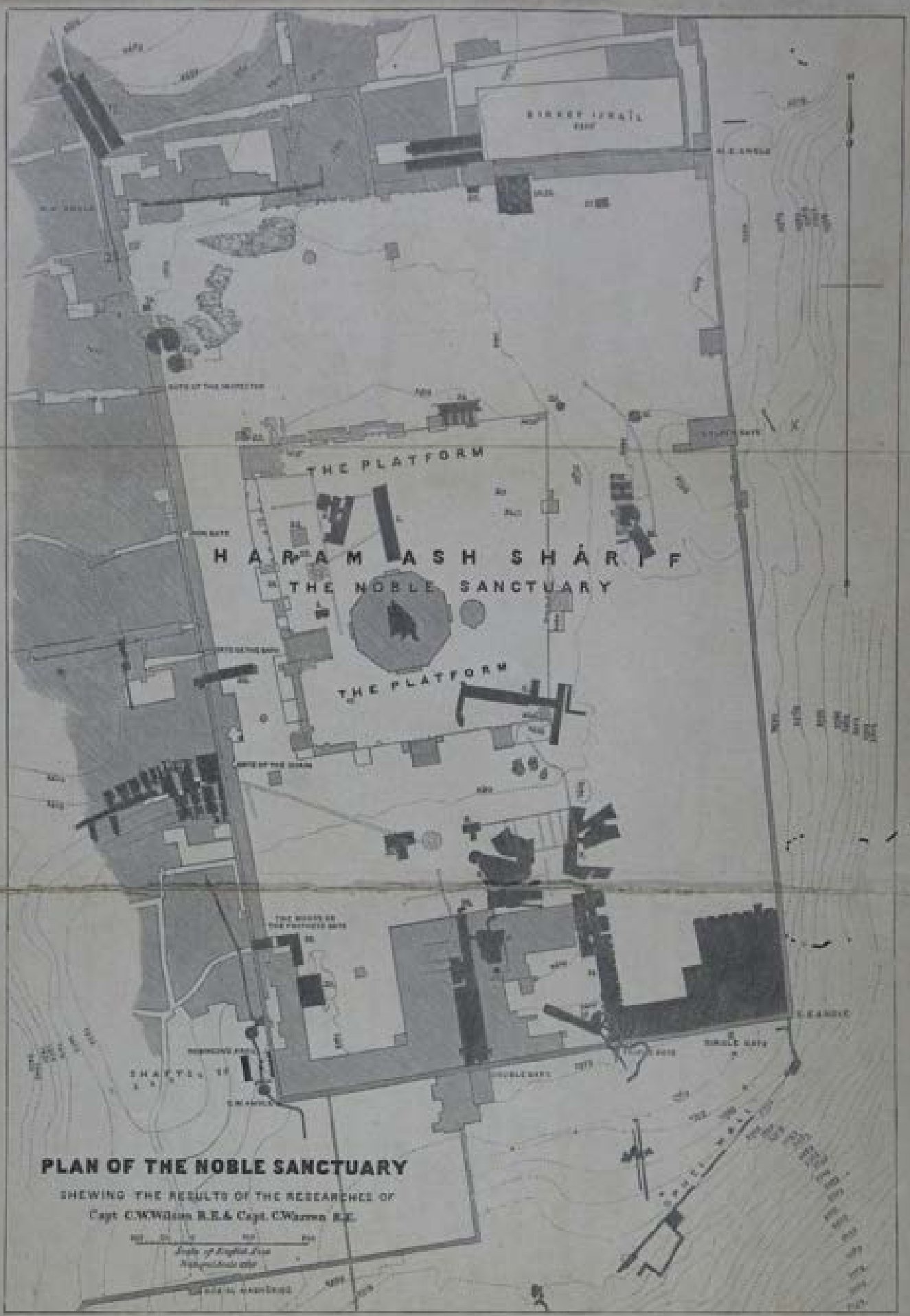
$ %$$ $% !‘ ‘# *’$ # ‘ ‘ ‘+$ $-$ #%*
‘ #*’+$ %$’ ‘ $ ‘ &% %$#,$% ‘ ‘ ‘#%$ ‘ #. #%
‘ ‘$ &+$- ‘# ! ‘ /$ -‘ ‘ ‘$ ‘‘ !%#‘‘‘*‘ ‘
‘$ * *
:$%& # $. ‘ ‘ $, ‘‘‘# -# *’# . & # ‘ - *‘ ‘$
+ $ $$. ‘ ‘, # & ‘ ‘ ‘$ 2$%* +#-/+ $ ‘ ‘$
‘ &# & ‘ ‘$ 2$%* +#-/+ $ ‘ ‘$
- & %*‘ ‘$ & . ‘ ‘ ‘# ! % ‘ !$ - -‘$
%#2$% $ ‘ # $ $ % . ‘ % ‘ ‘ & ‘‘ # ‘ *
#‘‘‘‘% #-‘$ ‘ +* ‘ . & # ‘ % #, ‘ ‘$ ‘‘ ‘ ‘ ‘
‘$ - * # ‘ $ ’ !‘%$# ‘ # &%# ‘, %$!‘ ‘ ‘ ‘ ‘
!#2$ ‘$ ‘#+ # ‘ # ‘ $$ ‘ !‘ $-&% *’ % ‘
‘ $ # #-/ ‘$ $ 5/ ‘ 2$% $‘ B ‘ ‘$. & #
#%$ % & ‘ #+ & ‘ .‘%& # $ ‘ ‘ ‘ ‘

ʿ ʿ % ʿ &

Q2# $* ʿ '$ '$$ $. !$ ʿ $''$ '#'' ʿ *# Q
$ ʿ $ ʿ &' ʿ '$$'' # $#&ʿ# ,ʿ# $ $''# $!' ' $ &!
' $ U$ $ 1 ' # ʿ #. ʿ ' $ $.' $ ʿ $ $# $ ʿ ''&$ $
$ #' ʿ -$ ʿ ʿ \$$&'5
+#+$ ʿ # ʿ $ $ ʿ # ' ,' ! ' $ $ ' # ' ʿ $ $ $ $ ʿ
K? ʿ $ $ ' ! ' $ $ ' # ' $ #' ʿ $ $ $ &# $, ' $ ''# #-$
$ $ ʿ ' $ ' $$! $# ʿ $ '''' -& ʿ ' # #$ &
# ʿ #$ # . $ ʿ # ʿ ' $ @''' $ $ ʿ * ʿ . $''' &
ʿ ' $ $ ʿ ' $ 2# $* ʿ ʿ U$, $ ʿ # ʿ ʿ
$ $ ʿ $ ' -& . + $ $ ' ʿ $ &++ ' ʿ ' & ʿ ' $ * # $ $ ʿ
& - $ * ʿ $ $ ' ' $ + $ -& ʿ #--$ ʿ # ' $2 $ $ *
' $ $ $ # ' ' $ $ $ '' #-$ ʿ # $ $ & ' ' $ $ $ $ ' -/ ʿ # ʿ
+ $ $ ʿ -# $ ' $ ʿ -& ʿ ''$ $ ' -& # $ * ' #$ ' ' $ $
! 2 $ # ' ' # ʿ $-& $ * ʿ # ʿ '' +#+ * ' ' $ $
&$# ' $ $ -$ ʿ ' -ʿ '' $ $- ʿ ' $ - * ʿ ' $ & ' ʿ
$ # ʿ # ' $ ʿ ' # ʿ ' $ ' $ +& $ $ & $ ʿ ' $ $ ʿ ' $ *
+ # $ ' ʿ #2 ' ʿ B ' $ & $ ' $ ' $ $ 0
' $ + ʿ # ' ' # $ ' # ʿ % 2 $ ' $ $ +#-/ 7 = ' $
* $ $ ' ' ¡ ' $ - * ʿ - $ ʿ + $ # #-/ $ ʿ $
# * - ' # - $ ʿ $ ʿ & -- $ ʿ # ʿ ʿ ' $ $ ' 0 # ʿ $ ' $ $ $ ʿ # ʿ
. $ ''' $ ʿ $ $ ʿ $ ʿ # ' $ $ ' $ + * ' % $ $ # ʿ $ $ $ ʿ # ʿ
! % $ # ʿ % $! ʿ #+ $ + $ % $ $ $ % & - ʿ ʿ ! & .
'' $ % ʿ $ % # & ++ % ʿ % $ # - $ ʿ # * % - $
+ % & ! ' ʿ # ! # ' $.
' $. ʿ , $. _ * ʿ $ % $ * & % % & , $ ʿ ' * # . # 2 $
$ 5+ & ʿ # ʿ '' % 2 , $, & . $ % & ʿ # / ! ʿ
$ % ʿ # ' ʿ '' % $ - $, ʿ ' $ % ' ʿ ' * # ' - ' ʿ
'' # % * - & ʿ ' $ % - / ' $ % $ % 2 $! # $ ʿ ' ʿ
'' $ ʿ # ' 2 $ - $, ʿ ' $ % . $ % ' $:# # > # $
L ʿ , ʿ ʿ ʿ # #% ('' ʿ $($* $ ʿ '' ʿ 5) $! #$ /
% & ʿ 00 !'' # * ʿ '' ʿ # & ʿ # ʿ '' ʿ # * $ ʿ #'''' ʿ '' $ # ʿ #%$

&‘ ‘$

‘ ‘ ‘$ $ ‘ $ #.# -&‘ >#$ ‘ ‘$ % ‘‘
‘ $‘‘‘$ ‘ ‘$ $# ‘ # ‘ ‘$ ‘ # ‘ & !‘
>‘# $ ‘ ‘ ‘$ & ‘‘ ‘$ # ‘$% ‘$ #+‘ #85\#‘ %$‘
‘$ ‘ ‘$ % ‘‘ $ > ‘ $ >#$ ‘ ‘$ ‘$# ‘ # ‘,‘
‘$! $‘‘ &+ $‘ # ‘ ‘‘ >#$ ‘ ‘ ‘$ & ‘,‘
‘$‘‘ # $#&‘ ‘ ‘ ‘ ‘ # ‘ ‘‘ $ ‘& % . *‘
‘ ‘$ & ‘5$# ‘ # ‘ - # ‘ #+ & ‘> ‘ #-%$ ‘ ‘ ‘
‘ $% #%*‘ .$ $‘ # ‘ ‘$ &‘‘‘‘$%‘ +$, ‘‘‘% 2 ,$ # ‘
$4 %$.$ *‘ ‘#%,‘ - .‘‘#- ‘ $‘ -# $,‘ +*‘ ‘$ ‘ %#+ ‘
B‘ . 88‘17 ‘ ‘ ‘$ $%‘ ‘ ‘ ‘
- $‘ .+ ‘ # ‘ - $% ‘ ‘#2$‘ +$$ ‘ -& ‘ - ‘ ‘$‘
‘ ‘ $‘ $‘ -# $,‘B . $ $/$‘ 7
‘ & ‘ % #‘‘ ‘$%‘ ‘ #‘ #%!$‘ ‘‘$ ‘ ‘‘#-$‘
-# $,‘ #%# . ‘$ ‘5 ‘$% ‘ ‘ #-‘ ‘‘$-& #% # - *‘
‘ ‘ $*$.‘ ‘ # ‘ %&‘ ‘ ‘ &% #-‘ ‘
&,‘,‘ ‘ -*‘‘%‘ ‘ # ‘ 2‘ # ‘ ‘ ‘ #%‘
&%% & ‘ $ ‘ ‘‘#% +*‘ ‘ ‘ ‘ .‘&%# ‘ . # %*‘
‘ ‘$ % ‘ ‘ ‘$ & ‘$% ‘ ‘ ‘ ‘ S&$ ‘
/ #‘ # ‘ # ‘‘ ‘ +& ! ‘ % . $% *‘ & $,‘ +*‘ ‘$
U !‘ ‘ ‘ $. ‘‘ #% $#% *‘ ‘ ‘ ‘$ -‘ $ ‘ # %# ‘ $,‘
‘‘ # % . ‘ ‘‘#2$,‘ ‘ $‘ # ‘ % ! % . ‘
‘ ‘$ $ 5/ S&$‘ U&++$‘ $ 5 #/‘%#‘ ‘ ‘ ‘
+$#& & *5‘‘% ‘‘ % $ ‘ ‘ 9 ‘ ‘ #-%$,‘
$ - &‘$‘ ‘ ‘$ # - &#%*‘ # ‘ . ‘ .‘ #* $ ‘ -# ‘ ‘
‘ ‘$ $ ‘‘ ‘ ‘$:.$ ‘ # ‘ %#-$ ‘ ‘ ‘#2$ ‘ ! -‘
, #‘‘‘$#%$,‘ ‘ ‘ ‘ ‘ # +$$ ‘ $ ‘ &‘‘ ‘ # ‘ ‘$%‘
, ‘ ‘ $4#- ‘ ‘‘ ‘ ‘ # ‘ % *$#% ‘ +$$ ‘ $ ‘ ‘ ‘$
‘ $%-$ *‘ - $ $ ‘ ‘‘ ‘ .$%& # $. ‘‘ .
!%#‘‘ * ‘ ‘$ ‘ ‘$ ‘ $ ‘ ‘ -‘ ‘#2$ + # $,‘ ‘$
#%!$ ‘ & . +$% ‘ ‘‘‘‘ % $% ‘ #%$‘ > ‘ ‘ # ‘ ‘ -‘
. #/$ ‘ ‘$ $.‘‘ $ - &%$ - 5$4 $ 2$ ‘ ‘ ‘$
- &#%*‘ # , ‘ O ,‘ ‘ # ‘ ‘ -‘ - $ ‘ ‘ ‘



PLAN OF THE NOBLE SANCTUARY

SHEWING THE RESULTS OF THE RESEARCHES OF

Capt. C.W.Wilson R.E.& Capt. C.Warren R.E.

To face page 8.

% # $

!' %$ %& %. :# # >#
<<# - &#%* !' #''''#%$ *' "- &% ?# .# #$%# +%# -' *% "- ?# %? S&#% $% 5 U# #:# &' S&#% $% $ -' &%-' 4 +' &%- 2$ *' %$- $ +& ! 1 A

$%$!' - 2$% '#' _ '' $,[%
'$'$%'$ %#2 $ '"#% *' #%-'$,' 2$% +*' #
$%$'2#&
+ - '' '$ # &%#' % -/' '
$ '$% 2 +$ % ! '' *' - 2$%$, '' $#%'' 2$%
.$$4 $ '!% & ,[# '$ &% #-$ '# +$$ '#% .
-# *' % .$' +*-& !', '$ % -/ & $%'$
&%/ ' #%%#-/' '#', '' [# ' [Q $$ [
'$ '$ %$ *%$. 2 !' '$ &"""$% %# # #%# #'
'$ % '5 $ '# !'$. ''$ %# $' '' # % ['$%$ '$
% -/ ' -#%"'$,'# '$ _ .$%# ' ,' $ '' # % ' '$%, !'$
.$ $ $$ '$ '#2$ +$$ ' $ '' #-$ 2$%* #%% Q
' %#[.$ '#" # 9#%%$ '' & ['$ % -/'
! 2$ '' #-$ ' &% [# ' '$%$ #%$ '$% -#
'-' & '$# ,& ' +$ 2 '#' '$%$ #'# $
. $#, -& '$ ' % -/
$ '5 $ ' +#%%#-/ [' !% & '
+$! ' '$ 2$ ' '$ -$&% ,$ ['
#' $ -#%"'.$ ' ' '$ % -/ #- ! & '[# ,$ % ' '
#&+ $%%# $# '"# #![- 2$%$, +*' ! ,$% $% [
%& & $% 5-# $, ? # % #[# ,#+&$ [
#' $ -#%"'$ #- ! %' ' $"'# #!$ #''''$#% '
'#2$ +$$.#,$ '''% $- ' % - -$#' '$ %#
''$#-% '# +% #, '- '-& ' % &!' ' $ #%% '
$-/' ' # ' -' $''#%# $ ' $.# $# $% 2# $*
% '$ *% ''-$ ' -' %& ' % &! ' $ -' *'
.#* # ' '#2$ '' $- $,' # #S&$ &- ' $ $% ! '$
-&#%*[# # & '$% $, #-&% & ' % -/ '
'$ '' # #!$ # ' & ' $ '$ #- &# - &% $ $
, -'[' -' # $ ' $ '' &% & % #'['#'
' *$ ' +$$ ' %#-$,[# , $ ' $ ''

% ' % ' ' >

% . ' '$ # ! # ' ' ' # ' ' +* ' $. # $%5
'' 2#& ! (' # ' . . $ $. #
%&++ $. # %* # ' $ & '5$# ' # ! $ ' $ 2#&
2#%* ' '# ' '' #* & #% ' #% ' $ % '!
' ' - 2$% ' $ -%$# $ ' ''#-$ -#& $ ' +* ' $
' %$- ' ' $ $# $% ' # ' ' $ # - &#%*! ' -'
$#2$ ' $ & '$% ' $ #' # ' ! ' $ ' LO] HM
$#% ' $ ' '' ' $ - &%$ ' #
% & # $ $ &!'' ' . #/$ # ' '' % # ' - 2$%* '
- $ $ - >#$ $. #' $ ' #%- #* '
> # $! # , ' $ S&$ ' ' &%#/! +$ $# ' ' $ #+
$ ' #! ' #% +$ $ #%- #* ' ># $ # ' ' $ $ ' '' %.
' $ $ S&$ ' &%#/! ' - ' $ % . $% *
!#2$ #--$! '#2$ '!$ $%# *' +$$ ' - ' $%$ ' %#!.
$ $ $ #''''% #- ' ' - ' . $''' &' $
, $ -% +$ ' # ' $#, !! % . ' $ $ $% ' ' . $ -$
'' . $ $ &+&%+ ' $ - *' ' $ $# $%
' % ' $ S&$! ' 2%! - . ''#%# 2$ *
. ' $% ! # ' ' # # #* ' # S&$ $ -$ '
$ 2 ' ' #%$# #+ 2$ # ' . # #!$ ' ' # '
+$$ $ ' +* . * !' # - &# ' ' '
- $ ''# #!$ ' # - $% ' ' $ $# ' ' #+
#!'#% +$ ' % ' #%- #* ' ># $ %# ' % JL $$ ' '
#, %$- ' ''$''$. -& #% ' ' $ $% ' # ' '
- &#%* ' # -'#. +$%- 2$$ ' +* # $ 5+& ' , . $
' # '' ' &% $ # % ! ' # ! $ ' $ ' $ $ -
' $ % ' $- ' $ ''# #!$ % . ' $ # ' ' $
' # ! &#%* +$! ' $ 2 ' %! ' $ # -$ ' ' $
' # ' +* # %# . '' % ! ' & ' $% +%# - ' 9 ' $ '$%
' ' & ' $4-#2# ! # ' $ % - 2$%$ ' +* 2$%
! ? ' $$ ' %&++ ' ' $ #%- ' ' - ' - 2$% ' ' ' #

KOH

) # &ʿ ʿ$

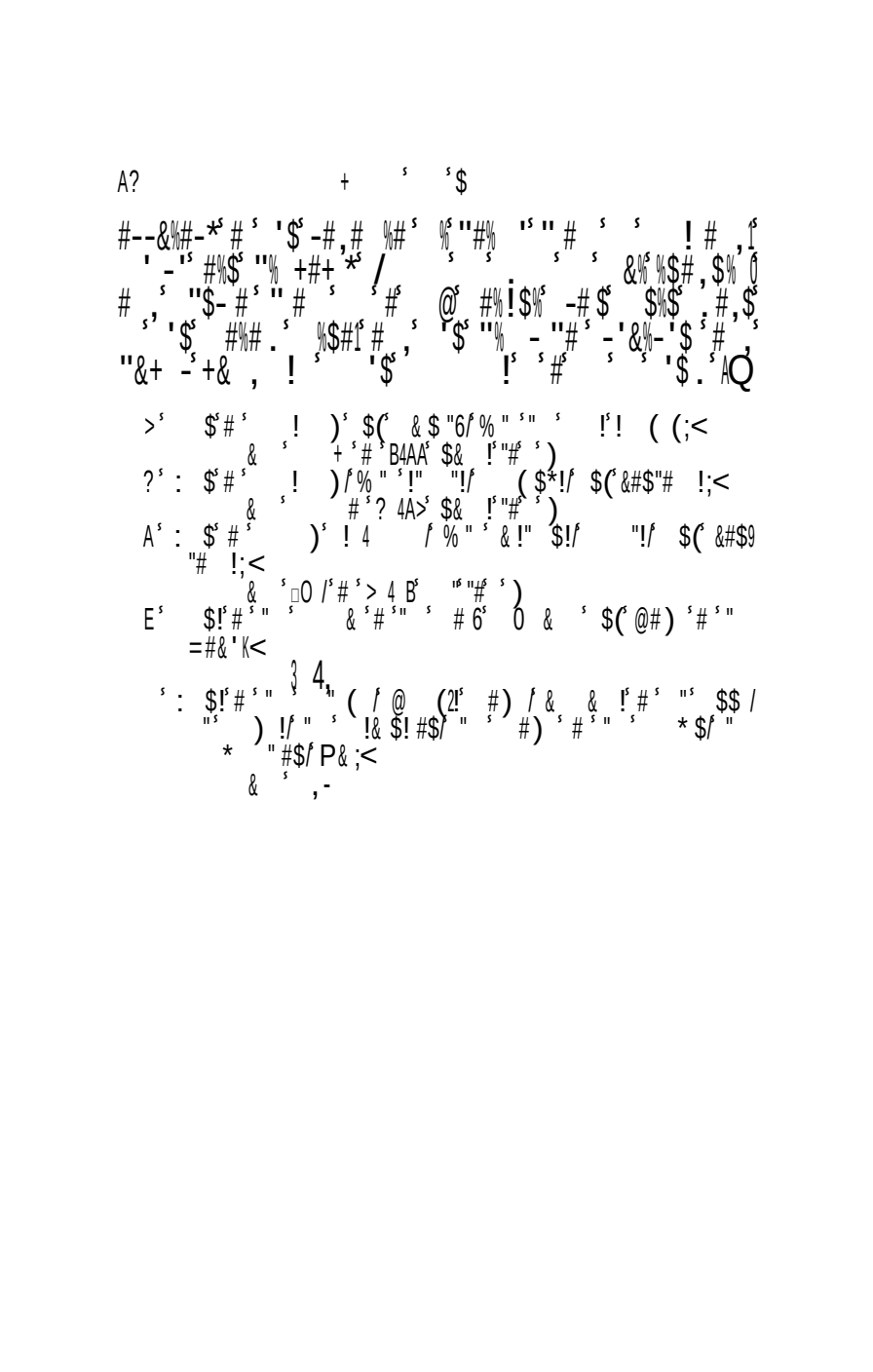
- ʿ$-& 2$ʿ,#* ʿ%# ʿ 'ʿ # $%ʿ% $ʿ#+ 2$ʿ 'ʿ '# ʿ
ʿ 'ʿ 2# $*ʿ #ʿ %$#. 'ʿ ʿ$ ʿ
'#ʿ +$$ʿ ʿ'$$"$ $ʿ,ʿ#ʿ ʿ'ʿ "$% ʿ#ʿ#ʿ,$" ʿ ʿ
KKGʿ $$ʿ ʿ'$%ʿ ʿ#ʿ# <$ʿ -'#. +$%ʿ ʿ ʿ'ʿ+ ʿ ʿ
'-ʿ #ʿ '# ʿ >?ʿ $$ʿ ,$$"ʿ $#, ʿ ʿ'ʿ "$ʿ$ ʿ
- $- ʿ 'ʿ$ʿ ʿ#ʿ !%$# ʿ S&# *ʿ ʿ%&++ ʿ ʿ
'ʿ 2# $*ʿ# ʿ ʿ - %&- !ʿ 'ʿ $ ʿ 'ʿ $ʿ
$$. ʿ'#2$ +$$ ʿ ʿ "ʿ &ʿ 'ʿ &% #-$5,%# #!ʿ
'-ʿ ʿ !ʿ 'ʿ -'#%!$ʿ, ʿ "&% $ʿ % ʿ 'ʿ
- *ʿ# ʿ ʿ$ʿ "$ ʿ ʿ %$*ʿ ʿ 'ʿ. # $%ʿ %& ʿ !ʿ ʿ
+$ $$ʿ, ʿ$ʿ $% #*$% ʿ ʿ . $ $$ʿ %& 'ʿ $ ʿ
. !'ʿ +$!%$# *ʿ . "% 2$,ʿ +*ʿ $ #%! !ʿ# ʿ ,ʿ %$ ʿ '*ʿ
-$. $!ʿ 'ʿ - $- !5-'#. +$%ʿ # ʿ #ʿ "$ $ʿ #ʿ
#%!$S&# *ʿ ʿ% # $% ʿ# ʿ . $#%% !$ ʿ $ ʿ
#ʿ "&+ -ʿ # &%$ʿ !ʿ ʿ +$. #ʿ$ ʿ%# ʿ !ʿ 'ʿ
$% # ʿ - 2$* !ʿ ʿ ʿ 'ʿ - *ʿ 'ʿ ʿ ʿ
'ʿ '# ʿ ʿ 'ʿ $ #' ʿ ʿ # ʿ #.)ʿ ʿ
-'#%!$ % ʿ ʿ "$ *ʿ 4"$ -$"$% ! # 5 / ʿ %
$% ,$ 2$%$, ʿ'ʿ - *ʿ# ʿ#$ &-'ʿ#,ʿ- $,ʿ 'ʿ
-'$# !ʿ +*"#% *ʿ !ʿ'ʿ / ʿ '$ʿ#,ʿ%ʿ 'ʿ
$% ʿ % ʿ<+ʿ '#ʿ '#ʿ"$-& #% # $ ʿ - ʿ
#% $ ʿ % . 'ʿ &% #-$5,%# #!$ 'ʿ - *ʿ +$!ʿ
. "$% $- *ʿ "$,ʿ
. 'ʿ$%$ #%$ #ʿ & . +$%ʿ ʿ - $ ʿ ʿ 'ʿ - *ʿ ' -ʿ
.#*# . +$ -# $,ʿ $ ʿ# ʿ+$,$ʿ %$-$ 2 !ʿ 'ʿ
,%# #!$ % ʿ 'ʿ &ʿ$ ʿ 'ʿ$%$ #ʿ- # %#.
$% ! !ʿ +$ $$ʿ 'ʿ . $ $ ʿ %#
'$* #%$ ʿ #ʿ 2$%*ʿ $% &-$ "" *ʿ +& ʿ
2ʿ 'ʿ , % $ & . ʿ$%ʿ ! 2$ 'ʿ%$$ ʿ &%
&-/$- &ʿ +$ ʿ$$ʿ $ $ʿ$ # , $ % $ʿ 'ʿ$ $ʿ
- $% ʿ #""$#% +$ ʿ 2$%* !%$# #ʿ S& *ʿ# ʿ
'#2$ +$$ʿ % . $,ʿ +* / !ʿ,$$" '# ʿ '% &!ʿ 'ʿ$

% -/ˡ # ,ʻ '$ 5ˍ .#/ !ʻ #ʻ + ʻ ʻ %ʻ %$ %5 '#"$,ʻ
$4-#2# ʻ #ʻ ʻ#ʻ+ ʻ . ʻ#-ʻ#ʻ- ʻ$- ʻ %
ʻ$" ʻ ʻ -ʻ %$.# ʻ $4 " ʻ #%$ ʻ'$ʻ %/$ʻ
. #ˡ %/$ʻ $ 5 & # ˡ " #.ˡ
%/$ʻ ʻ % # .ˡ # ʻ#" ʻ B#% 'ʻ ʻ +ʻ
'$ U !ʻ & ,ʻ$ʻ'$ʻ- *ˡ # ʻ'$ʻ 5-# $ʻ".ʻ ʻ ʻ
8/ #"ʻ # ʻ,ʻ ' ʻ$ʻ'$ʻ,# ˡ+$ʻ,$ʻ'%$$ˡ ʻ 'ʻ
$4 $ ʻ-$ʻ ' -ʻ'$ʻ%$ʻ # & ,ʻ&+ $ʻ, %#,ʻ ˡʻ
ʻ$ʻ $#% 'ʻ$ʻ :# #ʻ>#$ˡ ʻ$ʻ $#% 'ʻ$ʻX#$ʻ ʻ 'ʻ$ʻ
ʻ# ʻ$ʻ # - &#%*ˡ# ,#ʻ ' %, $#% ʻ$ʻ- '&%-ʻ
ʻ$ʻ
'$ %/$ʻ #. # ʻ ʻ ʻ & $0 ʻ - $- ʻ 'ʻ$ʻ
&% #-$5,%# #!$ʻ 'ʻ$ʻ&''''$% ''#% ʻ 'ʻ$ʻ2# $*ʻ ʻ
.ˡ # %# . # $% ʻ 'ʻ$ʻ" ʻ ʻ
8/ #"ʻ +*# -ʻ ,& ʻ ' -ʻ''#ʻ $ʻ & ʻ,$% 'ʻ$ʻ- *ʻ
$ʻ % 'ʻ ʻ$ʻ:# #ʻ>#$ˡ# ʻ,ʻ'#ʻ#ʻ+%# -ʻ
%& !ʻ &''''*ˡ 'ʻ$ʻ- $% ʻ,ʻ'$ʻ- #,$ʻ ʻ
'$ #2$%#!$ʻ,$'' ʻ ʻ 'ʻ$ʻ" ʻ KLʻ $$ 0 +& ʻ '$%$$
ʻ # #%!$ʻ#--& .& # ʻ ʻ %&++ ʻ# ʻ'$ʻ+ .ˡ
2#$% ''$% $- *ʻ ʻ ʻ - $ *ˡ
&%% & ,$ ʻ ʻ# ʻ ,$ʻ +*ʻ 'ʻ$ʻ. + ʻ ʻ# #%!$ʻ
$ʻ. -$ $ $%*0 # ,ˡ #ʻ #ʻ 'ʻ$ʻ # $% - $- $ʻ
'' $ʻ. '% &!'ʻ'$ $ˡ '#% *ʻ ʻ %ʻ / -!',ʻ
+ $ʻ GFʻ $$ʻ +$ 'ʻ$ʻ $%$ʻ ʻ ʻ 'ʻ$ʻ," ʻ 'ʻ$%$ʻ
ʻ # !$ & ʻ#%%# !$.$ ʻ %'%$!& # !ʻ 'ʻ$
ʻ # $% ʻ 'ʻ$ʻ- *
'$ %/$ʻ$ʻ5 & # ʻ$ʻ ʻ 'ʻ$ 2# $* ʻ ˡ
ʻ#ʻ ʻ# 2ʻ 'ʻ# ʻ # $% - & ʻ *ʻ'#2$ʻ
+$$ʻ & $ʻ % 'ʻ$ʻ %% !# ʻ ʻ# *ʻ !#%,$ ʻ -ʻ-ʻ
.#*ʻ'#2$ʻ$4 ʻ,ʻ $% ʻ 'ʻ$ʻ 2# $*ʻ 'ʻ$ʻ" ʻ
$ʻ ʻ # $%0 ʻ ʻ ʻ$ʻ- $%#+$ʻ 8$ˡ
,ʻ'#ʻ+$$ʻ %.$,ʻ+*ʻ+& , !ʻ# ,ʻ,#.ʻ#-%

ʻ # ʻ ' ʻ $ ʻ ʻ ʻ ' ʻ ʻ %*ʻ $# ʻ ʻ # ʻ ʻ ' * ʻ %
, $ -% '' ʻ ʻ &% !ʻ $#% ʻ *ʻ & ʻ . $% ʻ ʻ $2 ʻ #% ʻ $ ʻ
% . ʻ & ʻ !ʻ ' ʻ ʻ # ʻ % ʻ ' ʻ ʻ - ʻ % ʻ ʻ ' ʻ ʻ #2 $ %
''#% - $ ʻ $ ʻ ʻ !ʻ ' ʻ $+ ʻ . ʻ #% ʻ #& & . ʻ ' . ʻ
2%ʻ ' ʻ ʻ # $% ! $ ʻ ʻ ' ʻ ʻ +&-/ $ ʻ $ ʻ -$ ʻ !ʻ
% & '' ' ʻ ʻ ,ʻ ʻ '' ʻ # ʻ ʻ ' ʻ ʻ . 4 &% ʻ ' -ʻ ,' ʻ ' ʻ & # ʻ
' $ ʻ ' #2 ʻ , ʻ & ʻ $ # ʻ ' $ ' % ʻ # * +2%#! $ ʻ ʻ ' ʻ % + ' ʻ $
ʻ ' / ʻ ʻ # ʻ ' ʻ ʻ . ʻ ' # ʻ # ʻ # ʻ . # # ''''' $ #% ʻ
ʻ % ʻ ʻ % ʻ ʻ ' ʻ %$ & $ ʻ # ' ʻ # ʻ ' ʻ ʻ 2% ʻ $# ʻ
- . ʻ ʻ -$ ʻ ' ʻ ʻ -& ʻ + # ʻ ʻ # ʻ -# ' ʻ ' ʻ %.
. # ʻ ʻ :$%& # $. ʻ +& ʻ ʻ #- ʻ # ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ
& ʻ $# ' * ʻ # & % ʻ ʻ ʻ _ * ʻ ʻ ʻ ʻ ' '' '' & # ʻ
ʻ $ ʻ . # $ ʻ # ʻ # + & ʻ LMMM * $ ʻ ʻ ʻ 2 $ ʻ . ʻ ' ʻ %
' # ʻ KG!MMM -# $ ʻ ʻ -/ $ ʻ ʻ $ % # ʻ $ ʻ , $ ʻ ʻ ʻ ' $ %
ʻ '' # ' # ʻ ' # ʻ ʻ % ʻ # ʻ
ʻ &- ' % $ ʻ ' ! ' + ʻ + # $ ʻ + * ' ʻ # ' '' ʻ ʻ # ʻ
$ ʻ ' $ # ʻ % * '' $ -# & ʻ 2% * - ʻ $ % ʻ ' & ʻ
+ ʻ $ ʻ - $# $ ʻ -ʻ # * $# % # ʻ ʻ % $ & ʻ . 2 $ ' ʻ
# ʻ # -$ $# ʻ +$! ' % ʻ ' $ ' ʻ
% ʻ ʻ + $ -#%% $ ʻ +#-/ ʻ ' ʻ - ʻ $ ' + * ' ʻ % ʻ
' ʻ ' ʻ % ʻ # ʻ $%%#-$ ʻ ' ʻ ' & $ ʻ ' & ʻ
+ $ ʻ $ '' ! # ʻ ' ʻ ' ʻ . ʻ # ' ʻ '' # ʻ
' % & ! ' ʻ %5!#&8 ʻ . ʻ . '' ʻ $% ! #'''' #% # & ʻ
+ $ ʻ $ ʻ % ! ' ʻ - $%
ʻ # ʻ * - $ - $ ' ʻ ' ʻ # $% &'''' * ʻ ' ʻ
, %# #! $ ʻ ' ʻ - * ! ʻ ' _ ' ʻ ' ʻ # '#% , * ʻ . &- ' ʻ
* ' # ' ʻ ʻ ʻ $ ʻ ' ʻ , %# ' _ ' ʻ $4 ʻ
#% ʻ ʻ % ' # ʻ -$ 5'' ! # , ! $4 - $'' ' # $% ' $#2 *
%# ! ' ʻ ʻ - ' #%! ʻ % ʻ ʻ . & ' ʻ ' ʻ
''% $ ʻ . # ʻ ' ʻ - ʻ ' #2 ʻ ʻ ʻ #- ʻ % ʻ
! ʻ ' , %# #! ʻ ' # ʻ . $% & # $. ! # ' ʻ # $% &'''' *

&
- *
-$% #
U !
-'&%-
%#,
B'!
- *
-
-
-

A?



V ? ʻ ʻ : @

ʻ ʻ 9 ʻ

CHAPTER I.

DIFFICULTIES MET WITH.

OUR steamer found its way into the open roadstead of Jaffa on the afternoon of Feb. 15th, 1867, and the captain, who had predicted all the morning that we should be carried on to Beyrout on account of the storminess of the weather, now finally decided that we might land.

Our party consisted of Corporal Phillips, photographer, Corporal Birtles, in charge of excavations, and Corporal Hancock, sent out to complete the Ordnance Survey. Our stores were exceedingly cumbrous, and consisted of an assortment of crowbars, jumpers, jacks, handspikes, blocks, wheels, &c., packed in small boxes for mule or camel load. One large box, however, there was which proved the greatest nuisance, for it had nearly overturned

&%ʻ ' %$ʻ+ #ʻ#ʻ $4# ,%#ɪʻ# ,ʻ # *ʻ ʻ'#,ʻ ʻ'$ʻ
"$ʻ $ʻ,ʻ#ʻ ,ʻ ʻ- $ʻ ,ʻ % +&$ʻ,ɪʻ %ʻ ʻ-#.$ʻ,ʻ- &ʻ,ʻ
-#%%*ʻ,ʻ#ʻ ,ʻ'#2 !ʻ- .ʻ ,ʻ 'ʻ&ʻ#ʻ #ʻ #ʻ'% &!'ʻ
'ʻ$ʻ! ɔ # &%$ʻ, $% $%$ʻ -ʻ ʻ'$ʻ #ʻ % ʻ -.ʻ ʻ
'ʻ$ʻ %$ʻ $%$ʻ+ &!'ʻ ʻ %ʻ'$ʻ'#,ʻ"%ʻ."$%ʻ 8$ʻ ʻ ʻ'$ʻ
+ 4$ʻ ʻ ʻ %ʻ"#-/ !ʻ 'ʻ$ʻ ʻɪ +&ʻ
'ʻ$ʻ -#.ʻ ʻ.$' %2ʻ ʻ'$ʻ - - & ʻ'#ʻ#ʻ #%!$ʻ + 4ʻ
& ,ʻ &ʻ ʻ +$ $%ɪʻ # ʻ 'ʻ$ʻ ʻ #/$ʻ #ʻ
, - 2$%$,ʻ #ʻ #$ʻ ʻ +$%$.$,$,ʻ 9$ʻ'#,ʻ
ʻ + 4$ʻ - # !ʻ'$,ʻ $ ɪʻ $4 # ɪʻZ-ɪʻ#,ʻ
'ʻ$ʻ -& .5' & $ʻ #& ' %ʻ $ʻ "% & -$ʻ ʻ'$*ʻ $%$ʻ
& 56 %$ɪ& %ʻ #+ +ʻU#*#ɪʻ'$ʻ? -$5 &ɪʻ
&',$% /ʻ 2 &-'ʻ %ʻ'$ %ʻ +$!ʻ #ʻ "$#-$ &ʻ
&%$ʻ#ʻ #+ $ ʻ! ʻ
9$ $ʻ, %ʻU#*# ʻ' " #+ $ #+ $ ʻ > 'ʻ
$+%&#%*ɪ"# !ʻ'$!'ʻ#ʻ #ʻ.ʻ$'ɪ'#ʻ #% $ʻ,ʻ
$4ʻ . %ʻ !ʻ#ʻ N ʻ &% & ʻ,'' $%- !ʻ
- #ʻ + !ɪʻ'$ % !$ʻ ʻ ʻ
'#2$ʻ.ʻ$ʻ,' 'ɪ#ʻ $ʻ -%$"ʻ# !ʻ /$ʻ #ʻ 0 ʻ &%
.&$ʻ ʻɒ 2%#ʻ --# $%$ʻ + 2$%ɪ
#ʻ ,ʻ 'ʻ$ʻ % #ʻ,ʻ+$'ʻ &ʻ #ʻ $ʻ # $% #ʻ
#ʻ. &% &ʻ "$- #-$Q#ʻ,"#% *ʻ &% .$% -#ʻ
%$ʻ,ɪʻ#ʻ!$ $.#ʻ #ʻ,'ʻ,#&!'$%ɪ+ ,ʻ+ ʻ
%ʻ $ʻ %ʻ,$ʻ#ʻ &ʻ #+'$ʻ ʻ & #!# & ʻ'$*ʻ
%ʻ $,ʻ# !ʻ ʻ'$ʻ $5 ʻ#ʻ !&#%,ʻ & $ʻ &ʻ ʻ
'ʻ$ʻ 9$ʻ $%$ʻ ' %$$ʻ ʻ- &% !$!ʻ &'ʻ ʻ
:$%& # $,ʻ.ɪʻ 2$% #ʻ # -$ʻ #+ &ʻ $ *5 &%
.$ɪʻ-'ʻ-# ʻ +$ % ,$ʻ $# *ʻ &% ' &% ʻ
+&ʻ #ʻ '#ʻ $.$ʻ '$ʻ % #,ʻ #ʻ ʻ- $ -$,ɪ#ʻ
$ $%$ʻ,$ #*$,ʻ# ! ,ʻ,$#ʻ'' -/ !ʻ&¨ &% # $,ʻ
# .# ʻ #%% 2#ʻ #ʻ :$%& # $.ɪʻ ʻ ʻ .$ ʻ''%$5

$!' * $ ' ' '$ % ' & ' % %$ '
$ ' ' -# ' &" ' ' 4-$ $ -* 8 '
#- '#' ' $ V $ 2$% % '$& # $. ' # ' '#
2 8 $% # ' $ $% '# - . $ +& ' '# '' $! ' #%% 2# '
' $ & ' ! 2$. $ '#& ' % * % ' !! ! # * ' $%$
$4-$ '' #- &# * $ $% % ' $ # - &#%*1
9$. $ # $ * - . $ -$ ' %/ # ! $ ' $
- &#%* # ' & + & &% ,# * ' $ %/
' '''' $ ' ' $ %$ ''% $ $ # ' $. #%*
#- '#' ' $ $% $ ' # ' ' $,& ! ' $#% ' $ # ' $
' & , + % ! ' ' # ' ' '' #%) $ $ # $% #%,
$4# ' $ ' ' # ' ' $ & ' -# ' #! # ' ' $ '
' # /$ ' $ #- '# ' # ' $ $% $ ' /$ *. $ '
' # * ' # . #! $ + & ' $ $4" # $ ' ' # ' & '
+$ #% +$ $% / # ' ' $ #%% !$. $ ' ,
&" ' * $ # ' ' $ #- '# ' . ! ' #-$& $ -$ ' # /$ '
' # '' % 2# $ ' # $ % ' $ ' $ & ' #/$ & ' +%#! $
' +$! ' # /$ ' +* ' $ & ' #-- % ' ! *-# $ '
$ #- '#' ' # ' $ ' # ' +$ $% ' # ' % -$
2 8 $% # ' $ $% ' - ' #%% 2$ ' # ' $ $ ' ' $ $$/ '
@ % & # $ *' +* ' $ - $ +$ $$ ' $+% ' # '
.$%& # $. $4" %$ * $4- & $ ' $ + $ # - &#%*' '
' ' # ' # ,2 $ ' ' '' %$ $ ' #%* #- '#' # ' '' / $
#+ & ' $ $ -&% * ' ' $ # ' $ %$ $ ' # ' +$ $
$4-#2# ! +& ' # ' $2 $ ' # ' ' '''' ! & ' # ' ' # ' * '
. # $ & $ ' ' # ' # ' # . $# ' $ ' ' ' ' ' $ $
& $ ' . $ ' # ' '' $% - * #+ & % ' $ $ - . $
' ' $ ' $ ' $. $ ' $ ' $ ' %# '
! #2$! $ #+ & ' :$% & # $. ' $ ' $ ' '' % -$$ ' ' '
!#2$ 2% * % . # ' $ ' $ ' '' % -$$ ' ' '
$4'' # . $ ' $ ' $ %&- & %$ ' -$ $ + $

#&- &#%*ˈ !ʻ &"ʻ "ʻ 'ʻ %.# ʻ 'ʻ#ʻ
'ʻ#- %ʻ$ˈ% -/ˈ 'ʻ#/ %#ˈ ʻ ʻ 'ʻ. "ʻ $#2$ʻ ʻ
#ʻ"# .5 %$$ˈ %. 'ʻ% 'ʻ _"ʻ "% !ʻ# ʻ 'ʻ
% 2$% ʻ 'ʻ $#% 'ˈ# ʻ 'ʻ# 'ʻ# $. "ʻ ʻ# %# /
ʻ"%* ʻ &-"ʻ .# $%ʻ - & *ʻ+$ # $,$ʻ +*
ʻ .ʻ %ʻ -# #. *ʻ+$ # !ʻ'ʻ - & %*ʻ ,$ʻ
!$ ʻ ,ʻ #ʻ $4 %$.$ *ʻ - 2 ˆ # ,ʻ # /$,ʻ "ʻ ,
- ʻ $ 2% ʻ # $,'ʻ ʻ 4ʻ #ʻ#* 'ʻ & ʻ# #*ʻ
" -"ʻ &" ʻ & ,#*ˈ ʻ &! 'ʻ 'ʻ$ʻ ʻ$% ʻ ,$% ʻ#*ʻ
'ʻ$ ʻ 'ʻ$* ʻ$% +% &!'ʻ& ʻ ʻ$ &% ʻ ,#*ʻ
2 ʻ %ʻ ˈ+&ʻ #ʻ# ʻ#*ʻ#" ˈ ! ʻ %
ʻ !ʻ ʻ # ʻ#ʻ# ʻ#ʻ% $ ʻ ' / $ ʻ ʻ ʻ
.ʻ 'ʻ#ʻ 'ʻ# ʻ#ʻ'ʻ #*ʻ "% -$$, !ˈ# ʻ 'ʻ#ʻ 'ʻ
ʻ $ ʻ ʻ -#ʻ& $ ʻ + !$,'ʻ ʻ$
,#*ʻ# $%ʻ ,ʻ ʻ# ʻ ʻ$ ʻ$ ʻ#%% ʻ %$$ ˈ ʻ
!ʻ# ʻ#, ʻ % !ʻ ' ʻ % ʻ 'ʻ .ʻ ʻ
"$ "'ʻ#+ &ˈ# ʻ#"""$#%$ ʻ +$ # ! ʻ "" %.
& *ʻ %"# !ʻ+$ $$ʻ 'ʻ ʻ 'ʻ& %$- ! !ʻ
'ʻ ʻ 'ʻ $4 ʻ ʻ % !ʻ ʻ%$-$ 2$ʻ # ʻ#!ʻ % ʻ
' ʻ ʻ# / !ʻ ʻ ʻ & ,+$ # ʻ ʻ#*ˈ# ,ʻ
'ʻ "# ʻ .ʻ ʻ !5 ,$ʻ $%%$ʻ 2 ʻ 'ʻ # $% ˈ
ʻ #ʻ ʻ#! $$#+ $ʻ 9ʻ $%ʻ 2$%*ʻ ! ʻ % $ ʻ
$%ʻ 'ˈ +& ʻ - & , &$ -ʻ # # %ʻ .&-"ʻ
ʻ $ 'ʻ$% #*
ʻ #%-"ʻ ʻ $ ʻ 'ʻ : %,# ʻ ?# $* %ʻ #ʻ
'ˈ# ʻ ʻ *ʻ$ &% ʻ & ,'ʻ #8 ʻ #-'# '#ʻ
%$" #-$ʻ ,88$ʻ #ʻ > 2$% %ˈ# ʻ ,'ʻ #ʻ 'ʻ #ʻ# %$#,*ʻ
$ ʻ-$ʻ, "ʻ-$ʻ$ʻ %/ ʻ -$ʻ,&% !ʻ *#+ $ʻ -$ʻ
'ʻ$ʻ % ʻ$ʻ$ʻ $%!$# % $ ˈ# ʻ #ʻ
'#ʻ'ʻ#, +& $ ʻ $ %/ʻ# ʻ# +&ʻ 'ʻ #ʻ
' ʻ '# 88$ʻ #-'# '#, ! 2$ ʻ .ʻ $#2$ʻ $

$4 % $ '$ %/ '$ ''%$ $4 '# $ $%$, !! !# -$. $ $%*+& & '# '# '# +$$ %$#, *! 2$$#$ # $ %$'' % ''''$, &% %/ $#% '$ #.# -&>#$ +$ %$ $ '# '$,!# !#2$# %,$%'# *$ '$ - *$ # % ', $ # - &#%*' '# NM $$ #* '' #-$ % $4 -#2# !# + # , # # # $ '''$, & # $ '' $ $ $ $ # $ '$%+ ''$ $ $#% !' ' $4- 2$ 8$# . $0 +& +$-# . $2 , $ '# '$ # # 2$%* , $%$ #. '' ''%$2 > 2$% %+ # , '# &% %/ #''''$#%$, $, %&$ '# # 2 8 $% # $ $%+ %&- !' '$#& ' % $ $ # %, +$- $-$ #%* #- $ $ '' $ $ $ $

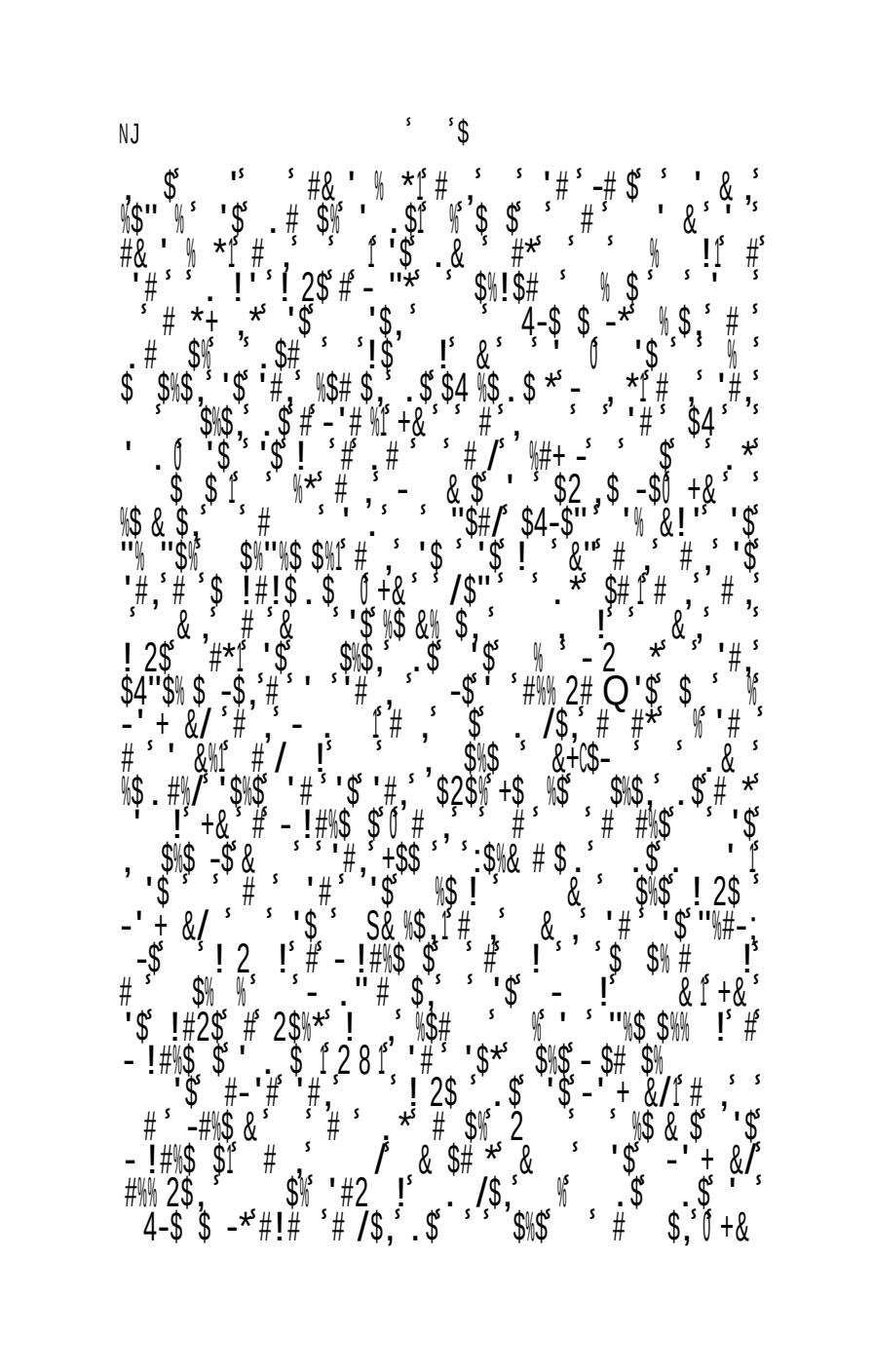
#%% 2#ˢ #ˢ ˢ $ˢ `% ˢ ˢ $ˢ ˢ %ˢ ˢ 'ˢ ˢ ,ˢ ˢ &%ˢ
+ˢ$- ˢ #ˢ ˢ ,ˢ +ˢ #ˢ ˢ -ˢ # /$ˢ, ˢ .ˢ ˢ ˢ ˢ ˢ ˢ #ˢ
#ˢ ˢ ,ˢ $%ˢ ˢ &ˢ ˢ # 2 ˢ *#%ˢ, ˢ 'ˢ$%ˢ ˢ ˢ ˢ .ˢ $ˢ %ˢ $ˢ ˢ
$%ˢ$ˢ ˢ +ˢ$ˢ''%ˢ$ ˢ ˢ ˢ +ˢ ˢ$# ˢ - ˢ $ˢ, ˢ -ˢ .ˢ $ˢ *ˢ ˢ ,ˢ #ˢ
'ˢ$ˢ$ˢ ˢ % ˢ #ˢ $ˢ, ˢ ' ˢ$ˢ ˢ #ˢ ˢ ˢ &ˢ ˢ '#2$ˢ +ˢ$ˢ ˢ '' ˢ$# ˢ #ˢ
$ˢ ˢ &!ˢ ˢ '#ˢ, ˢ ˢ ˢ +ˢ$ˢ ˢ ˢ ˢ 'ˢ ˢ ˢ$# ˢ ˢ &%ˢ ˢ # ˢ ˢ
'' #!&$ˢ, ˢ +*ˢ ˢ 'ˢ ˢ % ˢ # ˢ ˢ :&ˢ, ˢ !ˢ ˢ ˢ ˢ ˢ ˢ

NO # &ʻ ʻ$

'% &!'ʻ#' ʻ$ ʻ '$,ʻ %[# ,ʻ - & ʻ! ʻ ʻ &% '$%ʻ
*ʻ ''%$ ʻ '#ʻ 'ʻ$ +#/ '-ʻ ʻ $%$,ʻ &ʻ
'#2$ ''%$2# $,'#,ʻ ʻ'ʻ $ ʻ'#,ʻ:$% & ʻ %#',%#! . # [
'& ʻ#ʻ'ʻ .ʻ$ 'ʻ#,ʻ#ʻ2$%*ʻ $% % *ʻ$ ʻ . # [ʻ
'#2 !ʻ *ʻ #%% 2$,ʻ ʻ:$%& # $.ʻ # $%ʻ 'ʻ$ $#
'#,ʻ- ʻ$ -$,ʻ #,ʻ ʻ# +$$ʻ %$$ % .ʻ 2%ʻ ʻ
. !'ʻ ʻ#2$!#,ʻ $,ʻ $ %# -$ +*ʻ !ʻ ʻ#ʻ'$
, %ʻ %ʻ 2%#ʻ'-ʻ$ [#,ʻ%$ & !ʻ ʻ! & $ ʻ ʻ
,ʻ#ʻ# $,ʻ$ %ʻ#ʻ,%#!!$,ʻ# #*+*2 $ -$[
+&ʻ ʻ #ʻ& #+ $ʻ - &$ # $ʻ %/ . %$ '#ʻ
2$ ' &%
ʻ $#2 !ʻ $+% ʻ ʻ % $ʻ ʻ $ ʻ 'ʻ$ #- !ʻ
&ʻ 'ʻ$.# $%ʻ <' -ʻ'#,ʻ+$$ $%2$,[
+&ʻ 'ʻ$ #-'#,$ $ʻ [#,ʻ#ʻ'#ʻ'#,ʻ ʻ2 $,ʻ$.+[+&,ʻ'#ʻ,%$,ʻ ʻ!$ʻ 'ʻ$ -#2$
#-''$ #ʻ $ $ʻ %$ &% $,ʻ ʻ:$%& # $.ʻ 'ʻ$
OL 'ʻ :& $[# $% # . '$ ʻ$ ''# #[
#ʻ#ʻ -$ -# $,&'' ʻ 'ʻ$ #-'# 'ʻ %$ $%$ -$
'$ $+% -& *ʻ 'ʻ$ && $ # \#'' ʻ
#ʻ -# $,ʻ [# ,ʻ 'ʻ$ #-'# #% $,ʻ ʻ .ʻ ʻ$.&ʻ
''$#/ 'ʻ$ %& '[ʻ -'ʻ$ $ ʻ / $$ʻ
, %$ 'ʻ$ &,ʻ #*$4#- *ʻ ,'#ʻ --&%$,[# ʻ
. .$,# $ *+$!#ʻ #ʻ#-- &ʻ ʻ 'ʻ#ʻ&!'ʻ$,'-#2$
--&%$,Q' 'ʻ#,ʻ+$$ʻ $%$ #/$ʻ #ʻ 2$%ʻ 'ʻ$ S&$[
, ʻ$ $ʻ %#'$
, ! # [# '#2 !ʻ+% &!'ʻ %ʻ $%!& '' #ʻ
ʻ'$. S&$ ʻ*'' -/$[' $,'$ #- '#ʻ '$%$
ʻ'#,ʻ+$$ 0 +&ʻ $ -$[' ʻ #$,ʻ'$ '#,ʻ+$$ʻ
ʻ $%!& [#,'#ʻ>'#,+$$ 2%*ʻ
'' #-$ʻ'$'#,ʻ+$$ʻ B & 17 ʻ # ,B %ʻ $%!& ʻ
#ʻ $%$# #ʻ 'ʻ$. &.$ 7 B ʻ*$ &ʻ $%$
'$%$ 17 %$'' $,ʻ 'ʻ$ $& $ # B &ʻ ʻ #ʻ

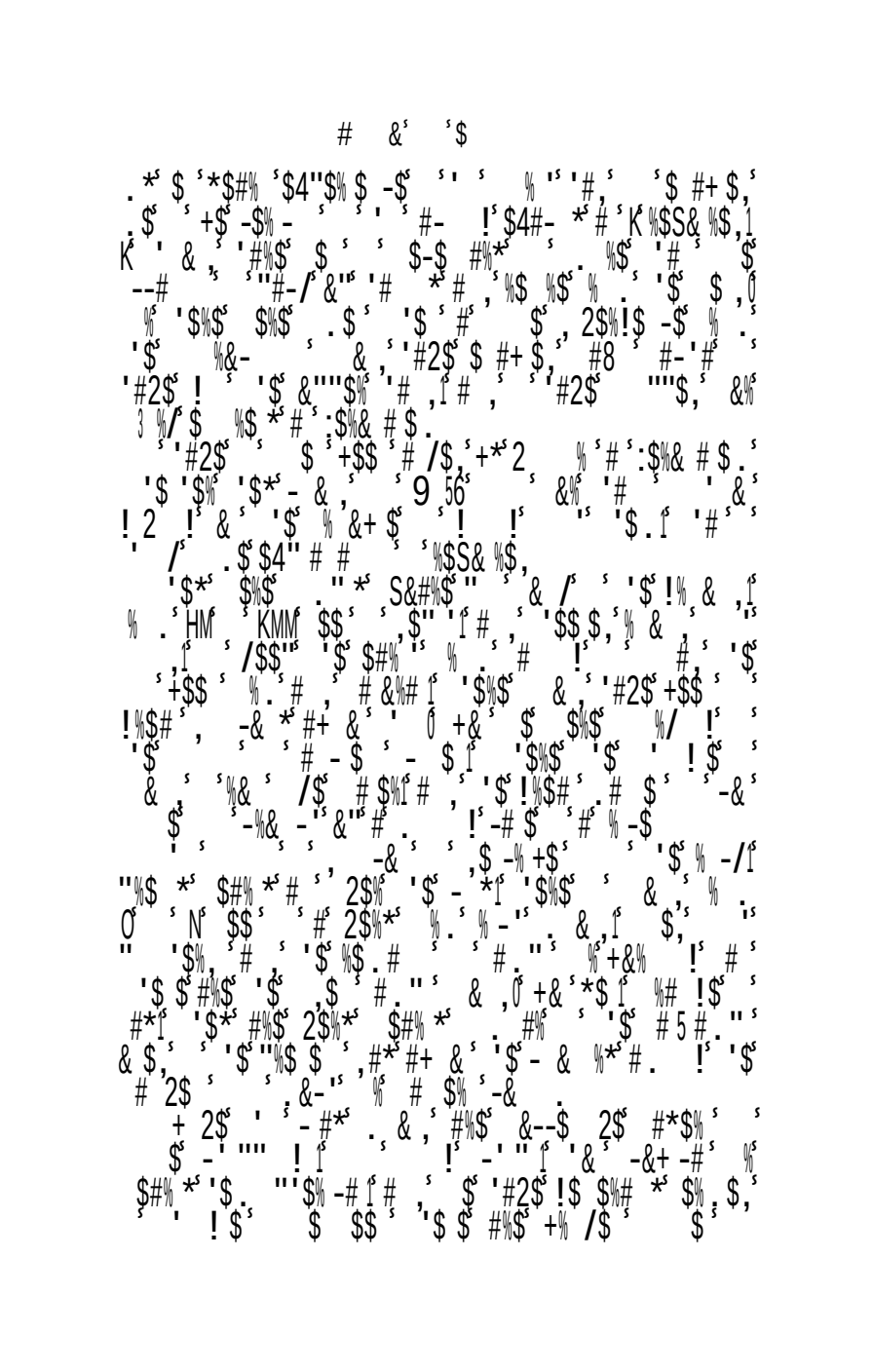
'$%$Ī#,ˢ *-&ˢ /ˢ '%&!'#'$ˢ 'ˢ
%17ˢ%$'' $,ˢ Ъ,'Ī'$Ī ˢ%$%!& ˢ#ˢ
,'$ˢ#ˢ ˢ$Ī&ˢ ˢ$ˢ#ˢ'ˢ$ #-'#'#ˢ
.#,ˢ&'#,'ˢ .ˢ'#,ˢ#ˢ'#,ˢ$$ˢ2%*' !'ˢ'-ˢ
% $%!& ˢ'#,ˢ$$Ī#,ˢ'#ˢˢ -$%ˢ #$.
.$ˢ #ˢ''$%$-,*ˢ# #-ˢ%*ˢˢ -$,ˢ 2$%*
.&-'ˢ !$ˢ'ˢ. #$%ˢ$,'+$ˢ%ˢ $,Ō +&ˢˢ
- &',!$ˢ#- #/$ˢ#ˢ'ˢ& #$Ī#,'ˢ
$&$ˢ# ˢ \#''ˢ#ˢ. 2$'ˢ#$*,%ˢ
:$%& #$.ˢ -#ˢ'$'ˢ$$!'ˢ'#ˢ'ˢ.#ˢ $%ˢ
-'-'ˢ'ˢ #-'#ˢ#ˢ#ˢ ˢ+% !'ˢ.'ˢ#ˢ
$2,$ -$ˢ $!'ˢ#!#ˢ.ˢ$ˢ#2$%*ˢ$ % .$ˢ#ˢ
'&% &%ˢ''$%# Ō#ˢ'ˢ$ˢ#.ˢˢ$ˢ- &,ˢ,ˢ
'!'.ˢ%ˢ'#ˢ''% $ˢ#!#ˢĪˢ%ˢ- &,ˢ,ˢ
+% !'$2 $ -$ˢ'ˢ'#ˢ'#,ˢˢ+$$ˢ#/$ˢ
ˢ2%*'' #-ˢ ˢ$%!& ˢ'#,Ī$4-$''ˢ'$ˢ+ /
,ˢ''#ˢ'ˢ$ˢ$$/'#ˢ$%ˢ $ˢ.ˢ%$ˢ,ˢ'ˢ
'ˢ,%ˢ'ˢ# -&#%*Ī#,'ˢ#!# # $,ˢ+% Ī'ˢ
'ˢ.#ˢ$%ˢ %#%,ˢ'#ˢ$Ī+&ˢ-&,ˢ
!$ˢ#- #/$ˢ 'ˢ#-'#ˢ*ˢ#ˢ'ˢ#,'ˢ#ˢ
S& $ &%$ˢ'#,ˢ$$ˢ 'ˢ. S&$Ī#,'#ˢ
#$ $,ˢ $$ˢ#ˢ $ˢ .'$ˢ!$ˢ-&ˢ#ˢ''$-#ˢ
$ $%ˢ%ˢ$ˢ#ˢ%$ˢ .'$ˢ$%Ī-'ˢ$2$%Ī
&,'#2$ˢ+$$ˢ ˢ& $ '$ˢ#-'#Ī%'$*
$#%*ˢ#ˢ#*ˢ$ˢ&'ˢ Ъ''% 2,$,ˢ*ˢ&ˢ$$ˢ
+$-ˢ 17ˢ#,ˢ'$ˢ#ˢ#*ˢ,,ˢ.#ˢ#!$ˢ $$ˢ#ˢ
+$-
'#2$ˢ .ˢ$ˢ ˢ#*ˢ'#ˢ'$ˢ %ˢ ˢ$+% Ī
#$%,% / !ˢ &-'ˢ+%#ˢ*ˢ.*'$ˢĪˢ$ˢ
#.$ˢ#!$ˢ'$ˢ.ˢ% !'ˢ$ˢ'ˢ-.*ˢ#/$ˢ :$ˢ
&ˢ$ˢ$ˢ'#2$ˢ#+ $ˢ ˢ'$ˢ4ˢ '$ˢ+#,ˢ
&,ˢ ! ,ˢ$ˢ '$% 2 ! ˢ &!'ˢ

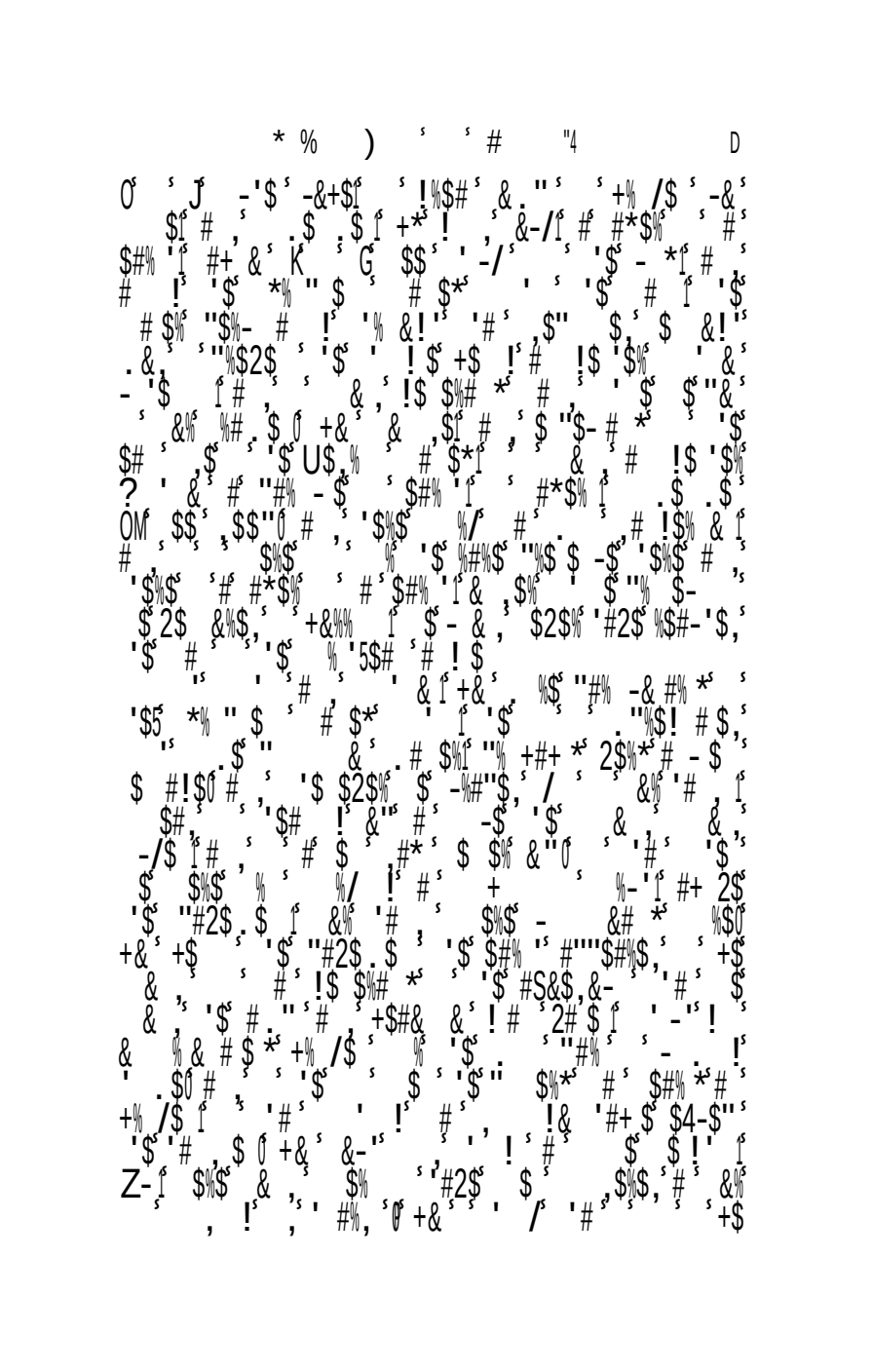
HESBAN. *To face page* 44.



0) >

'$ %/ !'# ! ,$ '$ # - &#%* # ' '$ #- # - '$ #-'#' # '#'# &, %/ #' - & ,'!$' '% &!'$2$%' +$!# # #-/ & 0 # ,' '$ KM '3 &!& '' %#' & -#' &--& .+$,'# ,' # +&%$,' '$ % '$ $.$$%*' $ # # $4-$ $ $ ' $4#- * & $, '$ %/ $' '#, '# ,' # ,' # , &+ * +$ %$!%$ $ $%!$# % $ #%% 2$, &!& ' # ', &% . - $, -$% # 2$% $$% '$ KM ' ', $" $.+$%0 # , #%, '$ $ '$,' %'' %# # , ' '#, # & $%$, .$ '# % . 2%' # $ ' $ %'' %# &% $% # 2$%* S& -/ * # #-/$, ' ' # . # %* 2%' # ', '$ %/ $%$ ''''$, ' % '$ '$% '%$$- %'' %# '#, ' # $ ' $%!$# % $ ' # '#,' #2$%* 2%$ # #-/0 # '# $ ' ,&% !' '$ $'' $.+$%# , - +$% $ $%$ # $4-$' '$ '%$$ -- $, -$% $% # 2$%* #%% $ -#''$ '' %# &% $% # 2# $, '$ 2$.+$%' # &% %/ $%$ %$ & . $, 0 # , ' +$-# 2$%* % $ * $% ' '$ #-'#' $ $'' & $# '$ ' ' $4# $ &% %/ ' # ' '$ #''''$#%$,'S& $ - $ ' $ &, ' !' # !' '$ # - &#%* # 2$. +$% '%$-$ 2$, . # ' '# '#-- & ' '$ #-/ & ' '$ $4'' $, &%$. & '+$ %$,&-$,' 'OMMY''$% '. $ ' +$!# ' % !&$ # ''& -$% # ' $ ' '$ ''%$ $-$ '# ' &% , -& $ &% #*' '$ ''%$ $-$ '# ' &% ! '' $%# $%$ $% $% ! ' #' $ # . . + ' # , '# ' &% '# $%$,# !$% & ' #*5 0

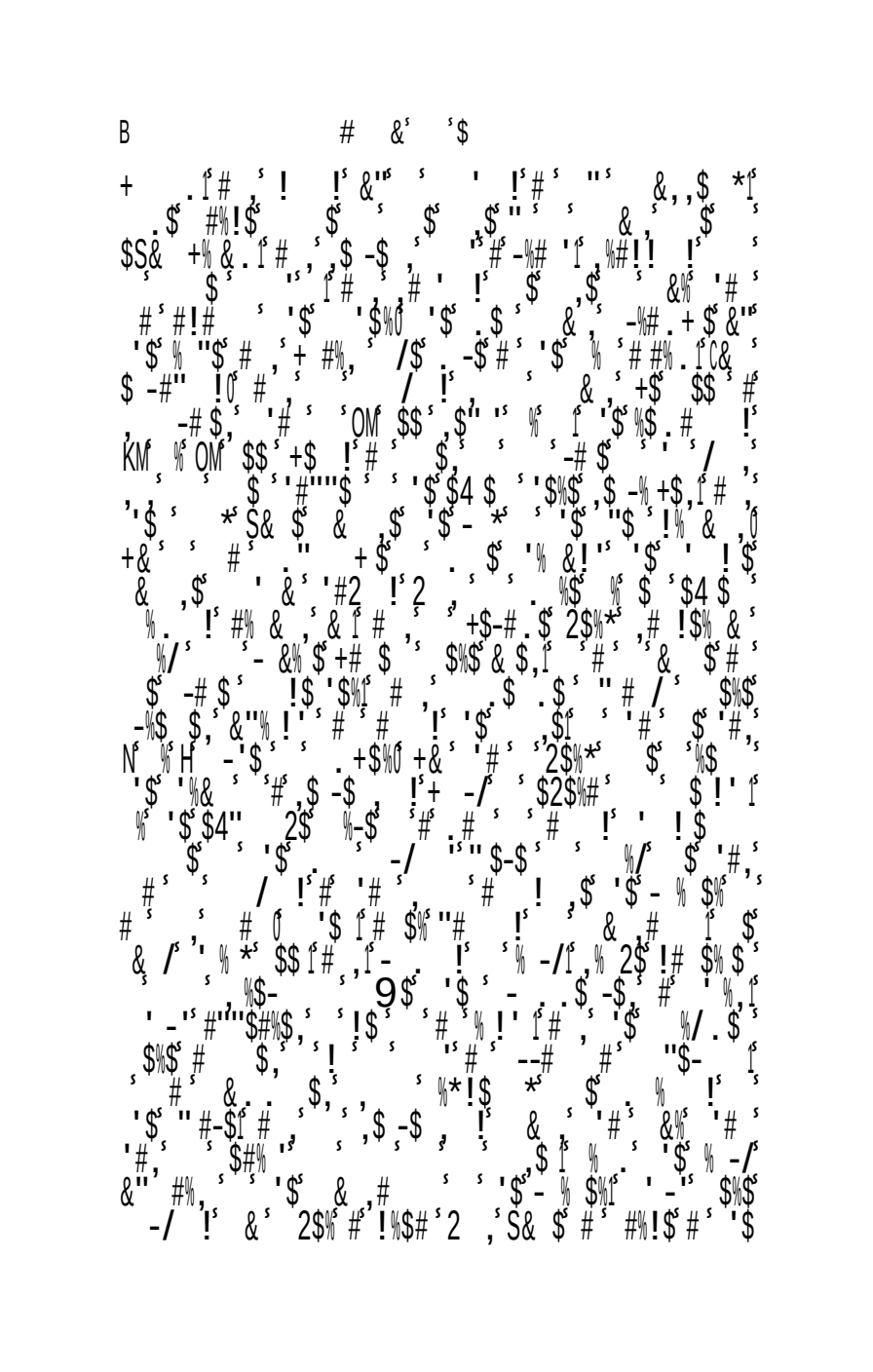




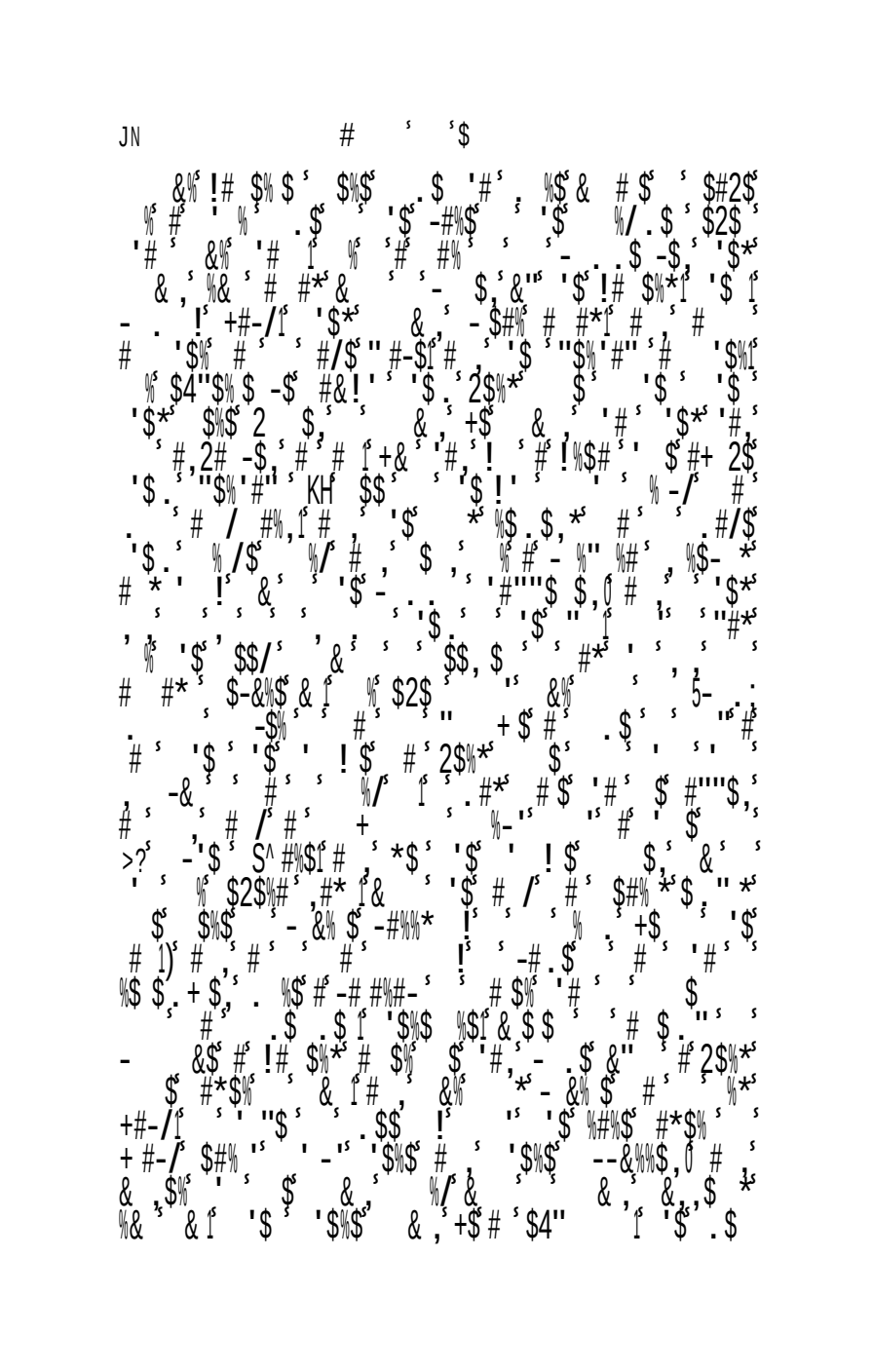
‘ ‘$

‘$%$‘ # ‘ ‘$ ‘ ‘$ - ‘$% ‘$ #--$. & # ‘ ‘
%&++ ‘ ‘ # ‘ ‘# ‘ ‘$ ‘$ ‘ ‘$ % -/‘ -#2$ ‘
& ‘ ‘‘% +#+ *‘ ‘#2$ +$$ ‘ & $‘ % - -$# ! ‘ $# &%$‘
& ‘ ‘ ‘$%$ ‘ ‘ # & % ‘$% - ‘ $%# ‘ ‘ ‘$,& % ! ‘ ‘$
# ‘ $ *‘ *$#% ‘ # ‘!%$# ‘ ‘‘ % ‘ ‘ ‘$ - *‘ ‘# +$$ ‘
& % $‘ ‘ ‘$ +& ‘ ! ‘ ‘ ‘$ & % # ‘ # ‘
%& # ‘ ‘‘ -$ ‘ ‘$ * #! !&$ ‘ # ‘ ‘$ ‘‘ &+ -‘
# ‘ ‘‘% 2# $ +& ‘ ! ‘ 4-& ! ‘ ‘$ $ %/ ‘
$ ‘ ‘$‘ ‘$ ‘ $*‘ ‘# ‘ +$$ ‘ $4‘‘$ ‘$ ‘ ‘ ‘ ‘
‘ $ ‘ ‘$ #%$# ‘ # ‘ +$$ ‘ $4# $ ‘ # ‘ ‘$ ‘ , & % $
‘$ &% ‘‘$%# ‘ ‘ # ‘ *$ ‘ ‘# ‘ ‘# +$$ ‘ & ‘ ‘ ‘
‘$ 2$ ‘ ‘ $% ‘ ‘ ‘ ‘$%$ # % -
-‘ ‘# +$$ ‘ /$‘‘ ‘ +* ‘$ %$ -‘ #%-‘#$! ‘
,&% ! ‘ ‘$ $4-#2# ‘ % ‘$ & # ‘ ‘#%, *‘# ‘
#% - $ $%$ ‘ ‘# ‘ +$$ ‘ & ‘ * # # ‘ ‘ %
‘ # ‘# ‘ $! ‘ # ‘ *$ ‘ $#% ‘ $% ‘$.$ ‘
‘ ‘ . & #2$ ‘# ‘ . # *‘ # &%, *‘ & $
,&% ! ‘ ‘$!%$# ‘ $!$
‘ # ‘ ‘‘ #-$ ‘ ‘$%$ #* +$ +$- ‘ ‘ ‘$!%$# $ ‘
$%$ ‘ ‘ ‘ / ‘ ‘$%$ -# +$ ‘ ‘ ‘$ ‘ ‘$ ‘ ‘ ‘ ‘
‘$ ‘‘ $! ‘ ‘ ‘$ ‘ &‘‘ ‘‘% +#+ *‘ +$ &$ +& ‘
‘ $ &-/*‘ -‘# -$ # ‘ ‘$ $#%- ‘ ! -% ‘ $ ‘
#‘‘‘$#% ‘ +$ # ! $ ‘$% & ‘ ‘ ‘$ S&$ ‘ # ‘
‘‘% $ $ ‘ ‘ &! ‘ ‘ $%$ -# ‘ +$ ‘ $ &+ ‘ # ‘ ‘$
! ‘ ‘# $ ‘ %#% $ % - $ ‘ ‘ . $ ‘ ‘ %/ . # ‘ ‘ ‘$
‘ # +*! $ #! $ & , -%$# $ # ‘ $% $ ‘ ‘ $
‘ ‘ -#% $ 2$%*‘ $ % $ $. $ ‘ , ‘‘ & $,‘
‘‘ ‘‘ !%#‘‘‘*

‘$! ‘ -# $ ‘ $%$ -# $,‘ B + 4$ 7 +* ‘$
$ #‘ # , ‘$*‘ #%$ + 4$ ‘ $ ‘$% ‘‘ %



'# ʻ $ ʻ '< ʻ ʻ $%ʻ %/ !ʻ '% &!''ʻ'#,ʻ
+$$ʻ2$%*ʻ $ʻ ʻ ' ʻ ʻ'$%ʻ'#,ʻ+$$#ʻ
'# ʻ,ʻ &'''' $)ʻ# ʻ ʻ'ʻ,ʻ& ʻ'#,ʻ!%#,&# *ʻ# ʻ- ʻ
, $%+ʻ %/ !ʻ ʻ ' ʻ ʻ+$!ʻ + $%2$,ʻ +*ʻ'ʻ.ʻ
,ʻ +#,ʻ +$$ ʻ -#%% $,ʻ&''ʻ #ʻ ʻ2 #ʻ . '' % # -ʻ
&%ʻ %/ '#ʻ ,ʻ$%$ʻ ' & ʻ+$ ʻ &+ ,$ -ʻ
*ʻ ʻ #ʻ ʻ ʻ'$ʻ *ʻ ' !ʻ +$ʻ ,ʻ #ʻ
ʻ ʻ, ʻ''#-$ʻ'# ʻ #ʻ ʻ - ,ʻ -- %, !*ʻ
'ʻ $ʻ #' ʻ $%ʻ+& ,$,ʻ #ʻ &ʻ !$% %ʻ
,' ʻ''% -$$ ʻ ,ʻ ʻ #ʻ -'ʻ !# $%ʻ
'' $-ʻ ʻ %ʻ ʻ ʻ& ,#ʻ ʻ ' -'ʻ%# $,ʻ 2$%ʻ &%
'$#,ʻ ,ʻ #ʻ . ʻ ʻ ʻ !'ʻ#ʻ ʻ<
ʻ ʻ ʻ $ʻ !# ,ʻ $% ʻ ʻ ʻ ʻ -ʻ ''#%# 2$ *ʻ #ʻ
%'#,ʻ ʻ ʻ ʻ #ʻ ,ʻ - ʻ ʻ ʻ ʻ ʻ ʻ ʻ &ʻ ,''% +#+ *ʻ '#2ʻ
+$$ʻ *ʻ ʻ ʻ ʻ !'ʻ ʻ'#2ʻ #%2$,ʻ ʻ &
ʻ $%ʻ &! ʻ & +& ʻ ʻ ʻ ʻ ʻ ʻ #. ''$,&''ʻ
ʻ ʻ ʻ ʻ ʻ ʻ ʻ



‘ ‘$

'$‘"# #!$‘'$%$‘ $%$‘ ‘ .#‘'#‘'$*‘- &’‘ *‘
'$‘- $#%$‘ &‘+*‘ '$‘ .$‘ -%# !‘ ‘$%’/ $$ ‘
#‘ ‘$‘'$%$‘ #‘ +#%$*‘ %‘ ‘ %‘"# #!$‘ ‘ ‘
$‘ --# ‘ ‘$‘ #/ !‘ .$‘ 2 %‘ ’
'#‘ ‘$‘ ‘ ‘$‘ ‘+$' ‘ /‘'$‘ % !‘ &% !‘
#‘ ‘! ‘ ‘ ‘$‘ ‘ ‘$ $‘’"# #!$‘ # $% !$!‘
‘$‘$‘ ‘ ‘ ‘ #‘ ’‘ !‘ &‘$ ‘ ‘$‘%$ &% $‘#‘ ‘
$‘ &"‘ #‘ ‘$%‘ # ‘ #‘ *‘ %&!! $‘‘ ‘ ’‘
‘-‘ ‘ $ ‘ &‘ $%‘ $‘'#‘! ‘ &"‘ ‘‘$‘ &% #-$
‘$‘ #‘ ‘ $ ‘ #‘ ‘ #‘2‘ &# *‘ ’%#!!$‘ ‘ &‘ ‘#
!‘ ‘ #$‘ # ’ #‘ ‘ -& *‘'#& $‘ &"‘ ‘ $‘
$‘ ‘$‘'#’+$$‘ ‘ %$‘ '# #‘ ‘ $‘ &‘ $%!% & ’‘
' &!‘ ‘$‘'#’+$$‘ ‘ $‘ 2$% $‘ '& $%’*#%’ ‘
‘$‘ ‘ ’$% &‘ ‘ ‘ ‘$-$" 2$‘ ’‘ # -$‘#%$ ‘$‘
* &‘#%$‘ -%# !‘ ‘* &%/ $$ ‘# ’ .#-’
$‘ ‘$‘ $# ‘ #!%$$#+ $‘ # -# ‘ $- $‘’‘
‘ &% %/‘ #‘ ‘$‘ $ &2 # % . ‘$‘ & .+$%‘’‘
%#+‘ $‘ .‘ *$’ ‘ #‘ $ ‘$ ‘ $-$ #%* ‘
/$$‘ ‘$‘.‘ &’‘ . % ! ‘$‘ 2 % $%$‘
- . !‘ ’ ‘ $‘ ‘ ‘ ‘ ‘ ‘ ‘
&%‘ ‘ - $‘ ‘# .# ‘" -/#4$‘ .# -/‘
#‘ ‘+# /$‘ # ‘#‘ "# !‘'#. . $%0 +&‘ $‘ ‘#’‘#
2% ‘ '# ‘ " /$‘ Z-‘ +$‘ ‘$ $‘ .$‘ ‘ - & ‘ ‘
+$‘ #&!‘ ‘ ’‘ &‘ $‘ ‘ # $‘ *‘ ’$‘ #‘ 2% ‘ ‘# .
" /$‘ ‘ #‘ #% - $‘ ‘# 2%*‘ %# /‘ -# $’‘
$‘ $‘ 2$ * & $‘ ‘$‘ ‘"%#- $‘ ’ %‘ ‘ / $‘ !$’‘
9$‘ &‘ $‘ . ! %&-/ ‘ % ‘$‘ ‘ ‘$‘ !# $% $‘
‘ ‘$‘ +#%% & $0 +& ‘ ‘ #‘ *‘ ‘ $‘ * & !‘
.$‘ ‘ - & ‘ +$‘ #&!‘ ‘ ‘$‘ ‘ #‘ +#%% ‘ &‘ #‘
’$‘$-$ ‘ . # $%‘ ‘ ‘$‘ $%$‘ #%$‘ ‘ $‘ .& - $‘ # !‘
’2‘ ". $‘ ‘ ‘$‘ #% ‘ ‘$‘ $‘ #’ ‘ # ’ # $%‘
$‘ %& ‘ ‘ # +#%% ‘ ‘ ‘$*‘ & ’ - .$ # ’ #*

?

‘ ‘$

% 5%# $ $ ‘ # ‘ # ‘ -# $ ‘ +* ‘ $ # ‘ B ‘ $
,$2 17Q<+$ * ‘ ‘ $ ‘ $ ‘ $ ‘ - & %* ‘ ‘
‘ * # %# ‘ ‘ ‘ $ # 2$ ‘ 9$ ‘ ‘ # ‘ # ‘ ‘
‘ $ ‘ # ‘ # ‘ &+ # ‘ % ‘ $ ‘ # . $ ‘ "& %" ‘ $ ‘ ‘ $ ‘ $ ‘ ’ ‘
#% $ 2$ %* ‘ . &- ‘ ‘ %$ " $ - $ ‘ ‘ :$ %& # $ ‘ . ‘ % ‘ : $ ‘ %
‘ $ * # ‘ %& % ‘ - $ ‘ . ‘ ‘ # ‘ # % $ ‘ . " * $ ’ ‘ ‘ ‘
!&#%, ! ‘ ’ $ ‘ 2 $ *#%, ‘ Z- ‘ ! *" ‘ # ‘ ’ ‘ #2 $ ‘ # ‘ ‘ -$ ‘ ‘
‘ # ‘ ‘ $ % ‘ ! *" ‘ # ‘ +* # # $ ‘
$S&# * $ % "$- $ ‘ 0 # ‘ ‘ -# ‘ ‘ ‘ $ "$’ ‘ / ! ‘ ‘ # ‘ ‘
. &- ‘ ‘ ’ & $ ‘ ‘ ‘ $ % +$! ‘ # * +$ $ % ‘ ‘ # ‘ ‘ ‘ $ ‘
2$ ‘ +& +$ -# & $ +$ * ‘ ‘ #2 $ ‘ # . * $ ‘ ‘ $ ‘ ‘ ‘ $ ‘ ‘
- & %* ‘ # ‘ , $ $ ‘ ‘ # ‘ ‘ $ % $. " * $ % ‘ # % $ ‘ ‘ $ % ‘ * ‘ $ ‘
% $, ‘ % +# + * # ‘ * % # ‘ $. ‘ ! *" ‘ ‘ %
&+ # ‘ & ‘ , 2 " $ ‘ # ‘ ‘ $ ‘ . # ‘ ‘ $ 2$ %*
%$. #%/# + $ ‘ %# ‘ # . ‘ ! ‘ ‘ $ $ ‘ $. ‘ ‘ $ # + $ ‘ - $ ‘
‘ # * $ $! # + & ‘ 5 0 * & ‘ $ $. ‘ $ - ‘ , $ $ ‘
‘ $ + #-/ # 2$ ‘ . # $ S& $ # ‘ . & - ‘ # ‘ ‘ , $ $. ‘ $ ‘
‘ $ 0 # , ‘ $ ‘ $ / ‘ ‘ % + $ ‘ # , 2 # ! $ $ $ ‘
‘ #2$ # ! ‘ , ‘ $# ‘ . ‘ $ $ + #-/ + ‘ , ‘ # ‘ $ $ ‘
- # $ ‘ ‘ #-- & ‘ . ‘ ‘ $ $ $ ‘ #2 ! ‘ + $ $ #2$ ‘ ‘ ‘ $ $
. *

$ ‘ # ‘ % ‘ $, ‘ ‘ + $! ‘ "# ‘ ‘ $ $
# . $ $ # ‘ ‘ ‘ $ ‘ - * ‘ # , ‘ # ‘ # ‘ $, $ # $ $
‘ $ $ * # ‘ / ‘ "%#* ! ‘ ‘ $ $ ‘ , ‘ $ $ * $ % $ # ‘ % / 0
+& ‘ ‘ # ‘ ‘ "& # ‘ ‘ # ‘ # $, &- "# *
: # $ $ # - ‘ "%#* $ % 9 $ + $ % 2$, ‘ # ‘ ‘ $ * $ 2$ %
"%#* $, $ ‘ $ + $ $ % # $ % / 0 ‘ # - ‘ ‘ 2 # ! $ $
- $ # ‘ , ‘ * & ! $ % , # * ‘ # """ $ # % ‘ + $ % # ‘ $ % $ $.
/ $ % ‘ $! & ‘ 2 % ‘ $ ‘ $, $ ‘
% / ‘ ‘ # / $, ‘ $ #2 $ $! & # % * 2 % * % , # * ‘ ! ‘
$ ‘ . ‘ $ $ # , ‘ "%#* & ‘ # 0 # , # ‘ $ / ‘
‘ $ ‘ $ ‘ , $ "# % * ‘ ‘ . ‘ ‘ $ % $ - $ 2$,

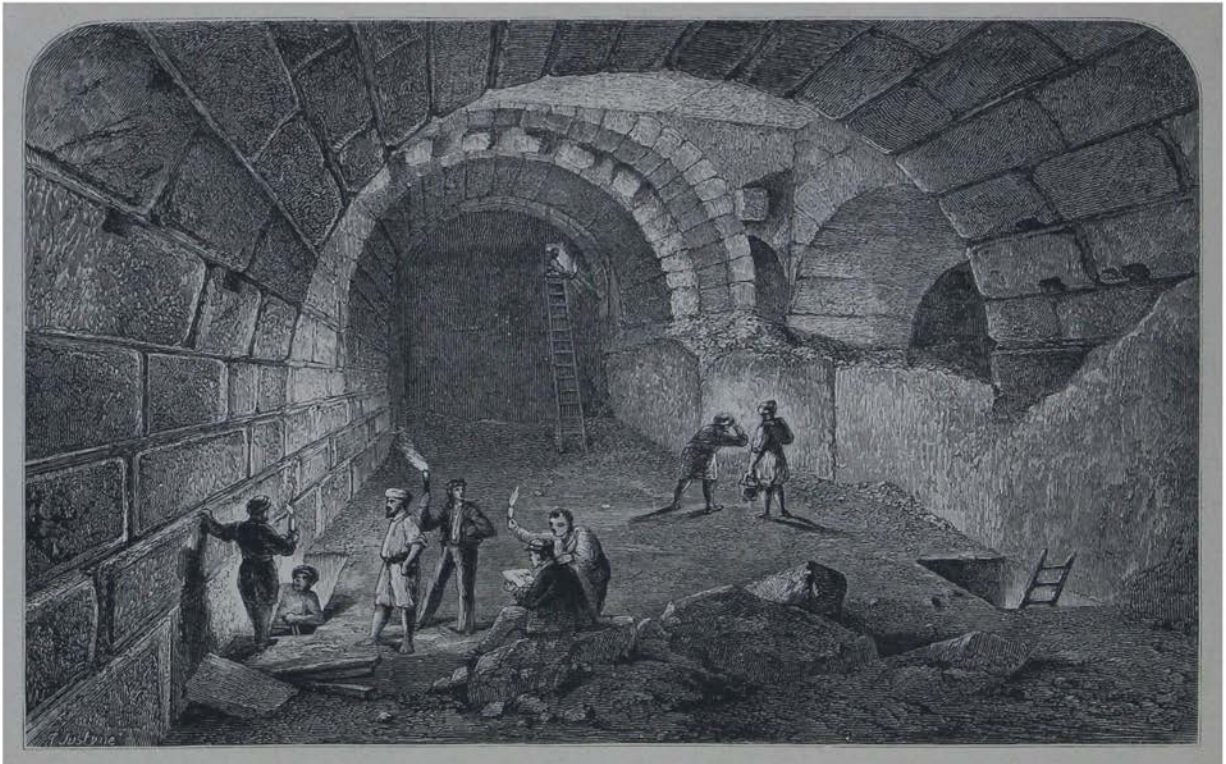
%/ !' "#*' %' '$.$ '$ #' # #*O'$ #' '
'$ #. *' ' '$$ %"'.$ '$ $ $%$ -$ ' '
%' "#', ' '$$! ' '$ $#', $ #. $ '
$ ', & ' +$$. &-'' % - $%' "', '$ * & !$%
+%# -'$
$%' &% %/ '#,' +$$ ' ! !' ' #' ' %' '$
'$ "#*' ' '$ +$ ' %/ . $ ' #' %# $,! +& ' -'$
-#& $ ' #' !$ $%# % /$' $ #' #'$$. $ $
% !$% '#' # '$%' #' ' '$%$ %$ #',$$* . & ' #'
+$ "#' ' '$ #.$' $4 ' ,' $$/ ' $$ $4 %# "#*' #'
! 2$ ' % . ' # # # -$ ' % &"$% % %/! # '
$ ' $$/ '$ $% ' -# $ ' "#*' $%$
%$- ! $,' $* %# !$, % . 4 2 '" # %$!'
#+ & G ' 7 &#' . ' $4 %+ # ' %# $!'
"#*0 +& ' '$* - & ' +$! ' %/ % $!' '
+$!' '$ %# $ "# ' '$ - *' ' # ' '$ %# $ '
'"#*' $ $ $ #+ ' $,! $ $% #+ $ ' /$" # ! ' '
'# 2$ $! % , $ $ - & +$ -'$-/$ ' +*'
#' %$,&- ! #!%# . - ,&-' +$!'" & $,' +*'
' . $%!$# ' % $ ' # #*' -#%% $,'#+ & ' ' ' " -/$'
$ &! '' $ $ '#' . # %# !' 9 ' ' $ -'
$ -$ # !% ' $ $! ' $.'#' #', ' $ " ' '
#' -/ !' ' $ #' ' #, $,&- ' ''"#*'
$#' ' # ' ' $!$ $%# *' -' $ '$
% :$%' ' $%' # ! # ' $. $ $ '#, 2$%*' $ &+ $!
'$* $ $ $ $ $ -$ 2$' ' $ & # . & $#, ' '
'#2 !'#''$%-$ #!$ $,&-$,' +*' . ', $. $
'$ $ #' $ ' $ ' $ ' $. $# !' '
& -!! +& ' / $ # ' ' $ & ,$% ' $ $,' #
# ' % . $ '#' $ '#,'# . . $ $ &$ -$ 2$%

- & ʻ 2% +$,%& . ʻ$ ʻ ʻ '$ %ʻ '$#, ʻ ʻ 'ʻ$ $% # ʻ $%$ ʻ !$ ʻ $ ʻ '# ʻ $4-#; 2# !ʻ ʻ2$%* . &-'ʻ . ʻ$ $4''$ ʻ 2$ # , #+ % ʻ & ʻ ʻ$ ʻ ʻ$ %# !$ ʻ ' ! ʻ ʻ ʻ$ # $% ʻ ' _'ʻ 'ʻ$ $# $% ʻ -# ʻ !$ % & ,ʻ# ʻ + ʻ# ʻ& & ''$- !ʻ %# / ʻ ʻ 2$%*' '#%,ʻ# ʻ , ʻ ʻ / ʻ ʻ# ʻ '$ ʻ#%$ # #* ʻ %* !ʻ ' ,ʻ$ %& ' ʻ % ʻ* &Q ʻ ʻ$ ʻ* &ʻ . $ ' !ʻ '$* ' / ʻ* &ʻ +$ 2 ʻ # ʻ # -$ ' ʻ$ ʻ$ # $ ''$ %#ʻ & -# -# . $ & ʻ %$ 2 $!$# ʻ % $ ʻ# $ #'$ & $, ʻ # ʻ ' ʻ$ # ' ʻ ʻ ʻ ʻ# ʻ ''$4 ʻ '# ʻ '#,ʻ# #* ʻ''% . $ ʻ ʻ''#*,ʻ ʻ %# '# ʻ''$2 & * & / ʻ# ʻ, ʻ'# ʻ . 2% ʻ ʻ # ʻ ʻ$ ʻ# ʻ - $ ʻ$ #%* ʻ #/$ ʻ' ʻ ʻ$ ʻ#, S& $ %/$, &'' ʻ ʻ$ - % '' %# ʻ+* ʻ$ % $# % ʻ# , #. $ ʻ # ʻ# & ʻ$ -$ #%* ʻ #/$ ʻ' ʻ , #'' . ʻ * -$ # ' ʻ $ ʻ$ ʻ$ ʻ ʻ$ ''ʻ % ʻ$. $*ʻ +$ % ʻ$ - . ʻ $ ʻ$ ʻ$ ʻ$

' '"& '#, &+$ '"% -$ ' '# ' # '-'$#"'$%
' $ ' !'# ' #' ' & '$ '$#%' '#'
&%' -# $ ' '#' # ', $' '#' '$ -#.$ ', # %
'"% -$ ' $ '$ ' ' $ ' $%$ ' # ' '$.
'$ +# /$ ' + # ' $, +*' $ ' !' # '
% $%' *' % '$.' '# % $ ' ''"# ' '
'"%$ $%2$ '$ '.' #*&"' $ ' '$ $ '$%' '
'$ % #,' &,' #/$ '$.' +*' %-$0 # ' $%$ -' '#,
'#2$ #. # ' / &' '$ ' $ *' ' $%$ - .' !'
' $ ' .$ %# /' ' &' $ ' ''$.' #/$.' $.
&% !' '$ '$$ *$#% &% %/ ' $%$ ''$ ' #+ &'
&%' 2$ '& ,%$, 2 % ' $ ' 2$% ' $.' # '
, & !' # $% .$ % 2%#' #* ' $ - &, ' ''$ '' $
%/ ' - $S&$ -$ ' $'$!%$#' & . +$%' ''$ '' $
#* '#+ & ' $ +$! !' > -' &!' ' '# ' /
. #' - &, ' ! ' ' ' % $ #' /
'#' ' ! # ' -#' ' $ #' 2$%*'
$ %#+ $ '#' #' . # *# ' '' + $ ' & , +$ #+ $ '
!' ' . $ #' ' $ -% +$ '#' #' ! ' $% '$ #.$
#- ' $ ' % ! !' ', ' 4, $ '#' ' !%$# 2#& '
' .&-'' '#,'+$$ ' #' #+ &' ' $ $ $ &' ' '$
$ $ $% ' # - &#%*' '#' '$' 2 %'
!$ $ $%# * $. $ ' $ +$ #+ $ ' # /#+ &'
$ &$ #, $ %$ $ & ,$%! % & ,17 #' '$*' $4.
'"$ $, ' #, $ $2 ,$ *' #"'' $, #' '#2 !'
-# ' $ 2%#' $,$ ' $$'# !'#$ $$' -' $'
!# $%*' . $%$ *' $ $ # 7
'$ $ $.# *' ' 2%' ' $ %$# * / # '
$% ' 2%* ' !' # , & ,$% , :$%& # $. 0

'

9 ' 9



WILSON'S ARCH. *To face page* 76.

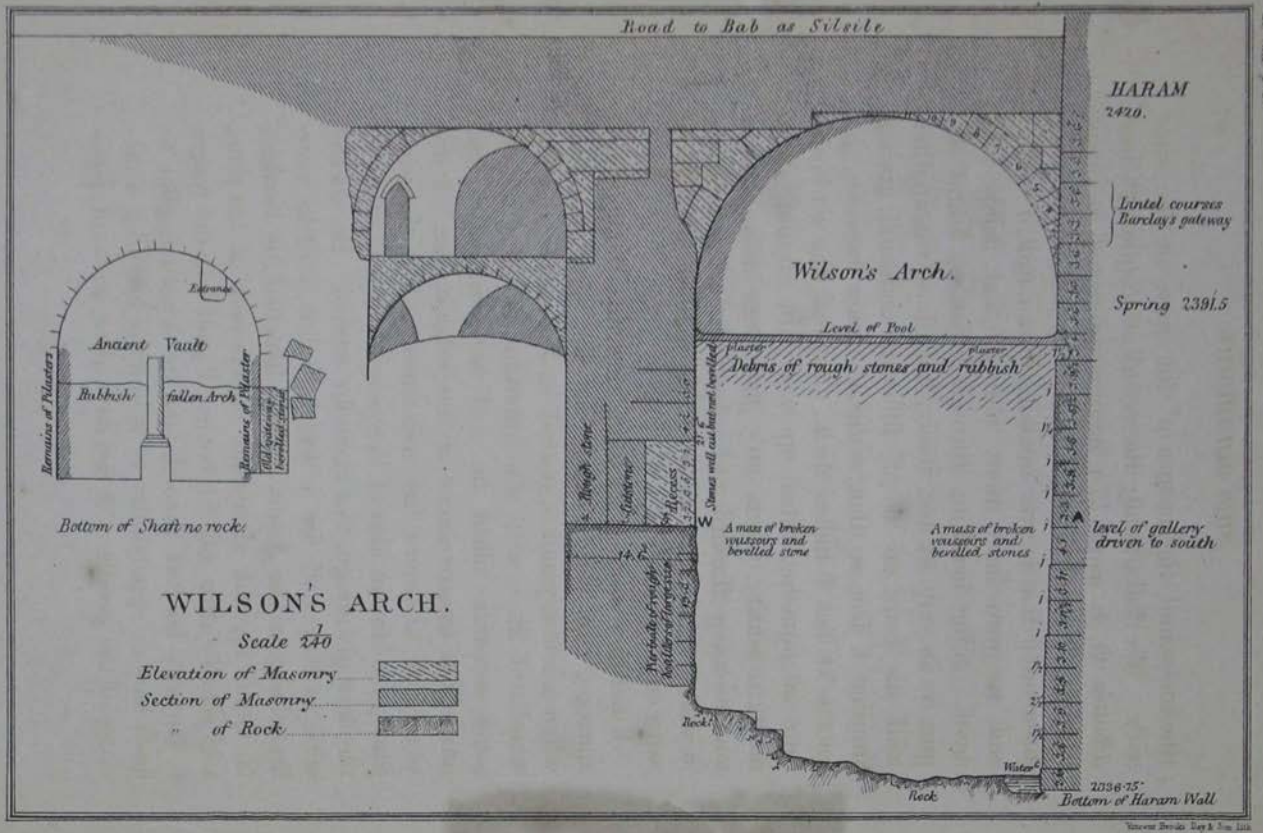
[*Reproduced, with some alterations, from the Illustrated London News, by kind permission of the Manager.*]

+ $%2 !ʻ ʻ %ʻ &%ʻ ,#* ʻ ʻ #ʻ & ,ʻ ʻ +&++ ʻ ʻ
#ʻ 'ʻ %'ʻ%ʻ ʻ ʻ 'ʻ 'ʻ#ʻ #ʻ ,'%& ʻ &ʻ 'ʻ ʻ 'ʻ
& 'ʻ &4ʻ ʻ #$% #ʻ ʻ !%$# ʻ 'ʻ ʻ ʻ
# ʻ . '' $ ʻ ʻ ʻ '' *ʻ ʻ &ʻ 'ʻ#ʻ ʻ $%ʻ *ʻ #+ ʻ ʻ
!$ ʻ ? $$ +$ ʻ 2 ʻ# ʻ ,'#ʻ 'ʻ ʻ ''
ʻ 'ʻ$#2*ʻ %# ʻ -#ʻ ʻ ʻ #ʻ $4 ʻ ʻ % !ʻ 'ʻ
$%ʻ '#ʻ #''''$#%$ʻ % ʻ 'ʻ + ʻ 'ʻ 'ʻ#
#ʻ ʻ ʻ $%$ #+ ʻ !ʻ$ʻ ʻ ʻ $$ʻ $%1 ʻ $ ʻ ʻ
-# .ʻ ʻ ʻ # $% #!# ʻ#ʻ ʻ % -/ʻ#ʻ HK $$ʻ L ʻ -ʻ ʻ
+$ ʻ 'ʻ ''% ! !ʻ ʻ ʻ ,ʻ ʻ %- 'ʻ 'ʻ + ʻ - &% ʻ ʻ
'ʻ # - &#%* ʻ #ʻ ʻ ʻ 'ʻ$%ʻ ʻ 'ʻ$% -/1ʻ#ʻ ʻ
& /ʻ ,'ʻ ?ʻ $$ʻ > ʻ ʻ -'ʻ$1& ʻ ʻ - & ʻ$$ʻ %$ʻ !ʻ
&'' ʻ 'ʻ '#%ʻ . 88 1ʻ '-ʻ $$. ʻ !$ $%# *ʻ '#2ʻ
G % N $$ʻ ʻ % -/ 2$% * !ʻ ʻ 9$ '#, ʻ ʻ /$$''
+&-/$ ʻ ! !1ʻ#, ʻ !ʻ & 'ʻ ʻ #$%1#ʻ ʻ - -&,ʻ ʻ
'ʻ %/0 # ʻ ʻ ʻ 'ʻ ʻ #$% % ʻ#ʻ
'$!'ʻ #+ &'ʻ ʻ #+ 2ʻ 'ʻ % -/ ʻ $% ʻ, -#ʻ
+ $%2# '#2ʻ +$$ ʻ .#,ʻ &% !ʻ 'ʻ #ʻ
$#% 1# ʻ 'ʻ$%ʻ ʻ # # . ʻ % ʻ ʻ # $%ʻ & ʻ
'$%$0 .ʻ .ʻ ʻ % ʻ G % N $$ʻ #+ 2ʻ 'ʻ % -/1ʻ
'ʻ ʻ#!# &+ ʻ 0 ʻ#ʻ#ʻ!$ ʻ $#% 'ʻ ʻ & ʻ ʻ
'ʻ ʻ 'ʻ $% ʻ % KM $$ʻ $#% 'ʻ ʻ & ʻ ʻ
.$ ʻ ʻ -%* #
ʻ #''''$#%ʻ 'ʻ ʻ 'ʻ#ʻ 'ʻ$%ʻ ʻ ʻ#ʻ %$# ʻ ʻ
$%1ʻ 'ʻ$ 'ʻ$% % ʻ %# # ʻ % % ʻ ''% ! 1ʻ''$%- ;
!ʻ '% &!'ʻ 'ʻ ʻ *% '' ʻ ʻ ?# $*
ʻ# $ ʻ ʻ ' #ʻ ʻ .#ʻ$ʻ ,% 2$ʻ# !# $%*ʻ % ʻ
'ʻ + 5 '# 1ʻ .ʻ ʻ ʻ &% #-ʻ 'ʻ % -/1ʻ
#-% ʻ 'ʻ 2# ʻ*ʻ ʻ ʻ 0 +&ʻ 'ʻ '' -/ ʻ ʻ #/ʻ
''%$.ʻ 'ʻ 1ʻ#ʻ,!& '' ,$% - & ʻ +$ & $,
$#%ʻ ʻ 'ʻ # -&#%*ʻ #
9$.#,$#ʻ # , !ʻ ʻ 'ʻ 'ʻ#ʻ#ʻ OHʻ $$

"#% ' ' ' % ! # $ - &% # ' ' ' $ $. " $ '
#-- %,# - ' $.$ ' %# '
  # ' ' %#+ $ # -$ # ' ' $ ' $ ' " $ '
  ' -' ' $ $ ' #& -' 9 %- ' % $ '
  # ' ' $ # . * ' ' # %* # ' ' $ # - &#* '
  # ' # ' # ' + %- ') # , , $ $ '
  ' % -/ & ,$ $# ' ' #%-
  -- %, ! * # ' # ' # - .$ -$ ', & $ ' $ '
#%- ' # ' ! ' $ # ' $ ' ' : $ % # '+ & $ ' $ '
  % ' ' $ & ' $ % $ $, ' % &! ' ' $ ' #% , - - $ $ '
  ' ' $ ' '' OH $ $ +$ ' $ ''% ! ! '
#%- ' ' $ '' $ % # ' & , +$ +& ' $ #%! $ S&#% $ '
  $ ' ' $ # $,) #% ' $ 4 ' $ %# $ '
  ' KL $ $ ' G -' $ ' $ '' $ % ' +& ' #%! $ % &! ' '
+ & ,$ % %$! ' $ % -/ ' -' ' $ % $ NN $ $ '
G -' $ ' +$ ' ' ''% ! ! ' #%-'
  $ % #% $ 2$ ' - &% $ ' ' $ S&#% $, ' $ '
#2$%#! ! ' G $ $ C -' $ ' N $ $ ' C -' $ ' $! ' '
' ' $ % $ $ - &% $ # %-$ ' ' -& ' . $ '
  ' # ' #% ' + %- ') ' $ ' $ '
  2$% ' +$! ' N $ $ ' C -' $ ' ! ' ' %-$ ' ' - $ '
H $ $ ' ' $ " $ % ' #+ & B $ $ ' $, # ' , L $ $ '
H -' $ ' ' $! ' ''' #%$ * ' #, -$ +$ $ '
& $, # ' # ! # $ #* % -' #. +$ % # ' ' $ % #% $! 2$ '
-& ' ' $ % $ -$ $ ' $ # ' &! ' % # . $ # ! # $
  ' ' $ % $ -$ $ ' $, 2$ %* - 2$ $ $ # ' ' % '
  ' ' $ -# . $ #- # , $ %$, # ' $ '''' $ ' $ ' '
  '# ' $ '# , $ - $ %$, ! $ ' $ #% * - $ #% ' $ ' $ ' # '
  $ $ ' $ & ,$ % $ #+ $, $ ' $ $ ' $ $ ' $. +*
! ! $ ' $ % $ # $ ' $ #% . # $ ' $ + . ' ' $ ' $ -$

&‘ ‘$

N‘ $$‘ +$ ‘ ‘$%$‘ ‘$‘ % &!‘‘ $‘ ‘ ‘$‘ ‘‘ $%‘
- ‘.‘ $ -$‘$‘ ‘ # ‘ ‘ $ ‘$‘ ‘# ‘ #+ 2$‘ ‘$‘‘ ‘$2$‘ ‘ ‘ ‘$‘
‘$%‘ ‘ ‘


Road to Bab as Silsile
HARAM
2420.
Lintel courses
Barclay's gateway
Wilson's Arch.
Spring 2391.5
Level of Pool
Plaster
Debris of rough stones and rubbish
Plaster
Stones well cut but not bevelled
Rough Stone
Pockets
Recesses
W
A mass of broken voussoirs and bevelled stone
A mass of broken voussoirs and bevelled stones
level of gallery driven to south
14.6"
Portals of rough builders rubbish
Rock
Rock
Water
2336.75
Bottom of Haram Wall
Entrance
Ancient Vault
Rubbish
fallen Arch
Remains of Plaster
Remains of Plaster
old gateway bevelled stone
Bottom of Shaft no rock
WILSON'S ARCH.
Scale 1/240
Elevation of Masonry
Section of Masonry
" of Rock

FN + ‘ ‘$:

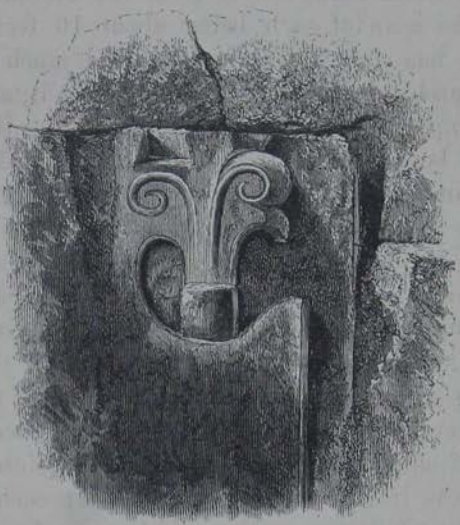
#%-'‘ . & ‘ +$ -$ ‘ +$-#& $ '$*‘ #''''$#% ‘ '#2$ &'''' %$‘ #‘ +# - *‘ '$‘ - &# '$ $-%$‘ ''# #!$‘ ' -'‘ $$. ‘ ‘'#2$ $ $%$‘ '$ # - &#%*‘ # ‘ . :$‘ # $ *‘ & '‘ ‘9 %-'‘#+ & ‘ KM $$‘ +$ ‘ . '$‘% #‘ , #* 9$ ‘ %$ &% ‘# $‘# ‘ ! ‘ # ‘ '$. # ‘ ''# #!$‘ $‘ # ‘ &%‘$ ‘ ‘ ‘$‘ $% !‘ '$ 2#& ‘ $ ‘ &% ‘% & ‘ # ‘ -$ 2#& ‘%& !‘ % '‘’ '‘'' $‘ #%-'$‘ #''''#%$ *‘ #%#-$ -‘ # ‘ '$%$ # ‘ '$%$ #%$‘ %‘ -%# -'$‘ ‘ '$ $‘ ’ . $% $+%$‘ -'#%#- $% 9$ ''# ‘ % &!'‘ ‘ '$ $ 2#& ‘ # ‘ '$ ‘ -%# . + $ ‘ '$. #-'‘ & ‘ $% # ‘ #%-'‘ # ‘ ‘ &% $ 2$‘ ‘ # '$% ‘ . #% 2#& ‘ # ‘ '$ $ ‘ #’ #% $ - &# '$ #%-'‘ . $ ‘ $ ‘ #+ 2$ '-'‘ -#%% $ ‘ '$ % ‘ ‘ % '$% ‘ ,$ ‘ '$ # ‘ :& -$ '$ $ 2#& ‘ $%$ # %$#,* / ‘ # ‘ # /$ -'‘ ‘ '$. ‘ ! 2$ ‘ ‘ '$ % ‘ # -$ &%2$*'' # ‘ '$ ''# #!$ ‘ '% &!'‘ '$. ‘ ' 2%‘ '# ‘ +$ - $#%$ ‘ & ‘ # ‘ # $%# &%%$'' & ‘ 2 ‘ % . ‘ $ ‘ , ‘ ! $ ‘ ‘ # ‘ . & $5 %#'‘ '# ‘ +$ - %&- $ ‘ +$ ‘ ‘ $$ ‘ '$ # ‘ 2#& ‘ C& ‘ & ‘ ,$%‘ '$ #%-'$ ‘ - . & -#. ‘ - $ ‘ '' *‘ # '' ‘ & / #+ & B $$ ‘ # ‘ B ‘ $$ ‘ ! # ‘ ‘ . '‘ ‘ # '' *‘ ‘ % #*‘ '‘ #'' # / ‘ -% 2$% ‘ # ‘ '$’ $ ‘ ‘ %/ $ ‘ $ ‘ &% ‘ , %# +% ‘ ! $ &'‘ # ‘ -#%% $ ‘ ‘ '$ '' ‘ # ‘ ‘ - &% $‘ -# -'‘ # ‘ *‘ ‘ -’ $ ‘ ‘ *‘ ‘ -#% ‘ '$ ‘ '$* # &%# *‘ ! ‘ # 2$%*‘ $4#!!$%# $ ‘ #-- & ‘ ‘ :$ '' ‘ $ ‘ '# ‘ &! ‘ % ‘ $. ‘ # ‘ 2% 2$ &%$ ‘ ‘ #!# ‘ ‘ $ $ ‘ $%$ # ‘ %/ '$%$ ‘ & ‘ ''$%.

.

ʿ% ; FI

- &ʿ ʿ 'ʿ $ ʿ +ʿ#ʿ #%!$ʿ -'#.+$% ʿ2$%ʿ
-ʿ$ ʿ.# %ʿ ' -'ʿ $%2$ʿ$ ʿ# ʿ'#ʿ +$$ʿ
#%-'ʿ$ʿ, 2$%0 #ʿ 'ʿ$ %'$% ʿ2 #,&-ʿ'# ʿ ʿ
 #%-'$ʿ +$$'ʿ $ʿ,&'ʿ 'ʿ .#ʿ''# #!$ʿ 'ʿ
 #%#-$ -ʿ #%-'$ʿ #''''#$ ʿ %ʿ .ʿ ʿ $ʿ ʿ ʿ
 # $% &'''' *ʿ 'ʿ $ʿ 'ʿ$%ʿ#%ʿ %# 5ʿ$ʿ ''$. !ʿ
 %ʿ. 2$%'$#,ʿ# ʿ 'ʿ$%ʿ ʿ.#%/ʿ$ʿ 'ʿ$%ʿ 'ʿ
+&-/$ʿ #''''$#%ʿ '#2$ʿ %&++$',''ʿ ʿ ʿ 0 'ʿ *ʿ
$%ʿ # $ʿ #ʿ ,$ʿ ''$ʿ''#-$ʿS&ʿ$ʿ-' /$ʿ,ʿ
&ʿ ʿ%&++ 'ʿ +ʿ2$ʿ -ʿ&ʿ +ʿ$$ʿ'ʿ$%$ʿ #ʿ,ʿ
'$%$ʿ 'ʿ$ %ʿ ʿ 2#& 'ʿ$ʿ !ʿ$ʿ %'ʿ$%
2#,&- ʿ ʿ 'ʿ''# #!$ʿ $#, !ʿ$ʿ ʿ#ʿ
''$ʿ !ʿ $#, !ʿ 'ʿ$ʿ # -$ʿ 2#& ʿ%$.
$%%$ʿ ʿ #+ 2$ʿ ', -ʿ'#ʿ &-/ * +$$ʿ & $ʿ, #ʿ #ʿ
/ʿ# ʿ,'ʿ& $ʿ'ʿ$''# $%'#ʿ''$ $%2$ʿ, ʿ 'ʿ$
% ! #ʿ,ʿ& $ʿ 'ʿ$ʿ-#%2$ʿ, $ʿ ʿ -'#.+$%
#-S& %$,'ʿ$ #.$ʿ 'ʿ$ʿ# ʿ - #ʿ %
- %-&. #-$ʿ ʿ - $ʿ-$ʿ, 'ʿ ʿ - 2$%*ʿ#ʿ,'+*
'#ʿ #.$ʿ'#ʿ $%.ʿ 'ʿ$ʿ%$$%% !ʿ ʿ#!#ʿ
ʿ %.#'' % ʿ$%.ʿ 'ʿ$ & '$%ʿ2 #,&- 0ʿ+&ʿ ʿ
$. -%-& #% #%-'ʿ ʿ &-'ʿ$ʿ# -$ʿ# #ʿ 0
/$ $ʿ,ʿ $# *ʿ %'ʿ#ʿ ʿ$ʿ'$ʿ2 #,&- ʿ '$$ʿ,$%#+ *ʿ
"$ʿ $ʿ,ʿ 'ʿ$!$ʿ$%#ʿ $ʿ,'ʿ$ʿ2 #,&- ʿ '$$ʿ,$%# -$ʿ
''# #!$ʿ $#, !ʿ ʿ.ʿ +$!ʿ #+ &ʿG $$ʿ #+ 2$ʿ
'$ʿ -% 'ʿ$ #%-'ʿ ʿ '#ʿ'$%$ʿ #ʿ $%$ʿ
'$ʿ2 !ʿ''# #!$ʿ ʿ #ʿ $%$ʿ,ʿ +*ʿ
.$#ʿ ʿ#ʿ% ''$ʿ#ʿ ,ʿ #ʿ- ,$%#+ *$%'%ʿ$,ʿ ʿ
ʿ,ʿ.*ʿ$ʿ ʿ# #%!$ʿ%$-#,!&#% 2#% ʿ$,ʿ-'#.+$%
ʿ# -$ʿ - -ʿ # - &. %''$,$ #ʿ
-/ !&'% .ʿ 'ʿ$-$ %$
ʿ$4#. !ʿ &% '$%ʿ 'ʿ$ -'#.+$% #ʿ & ,ʿ

in probably when the causeway was built. This chamber has every appearance of being the oldest piece of masonry visible in Jerusalem with the exception of the Sanctuary walls, and perhaps as old as they. To proceed onwards, we get up out of this chamber by a ladder placed for the accommodation of the many ladies who visited it, and go through the



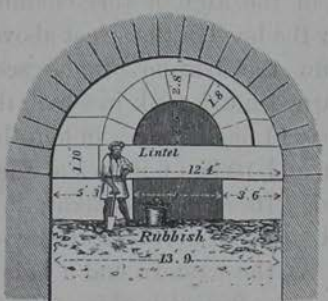
CAPITAL OF PILASTER.

northern entrance into the Saracenic water chambers, and turn to the west. After passing through this little passage to its end we are at the western extremity of the third arch of the northern viaduct; and we now duck down under a little doorway, and find ourselves under a fourth, and then under a fifth arch of the northern viaduct, while opening into

TQ? # ‘ ‘$

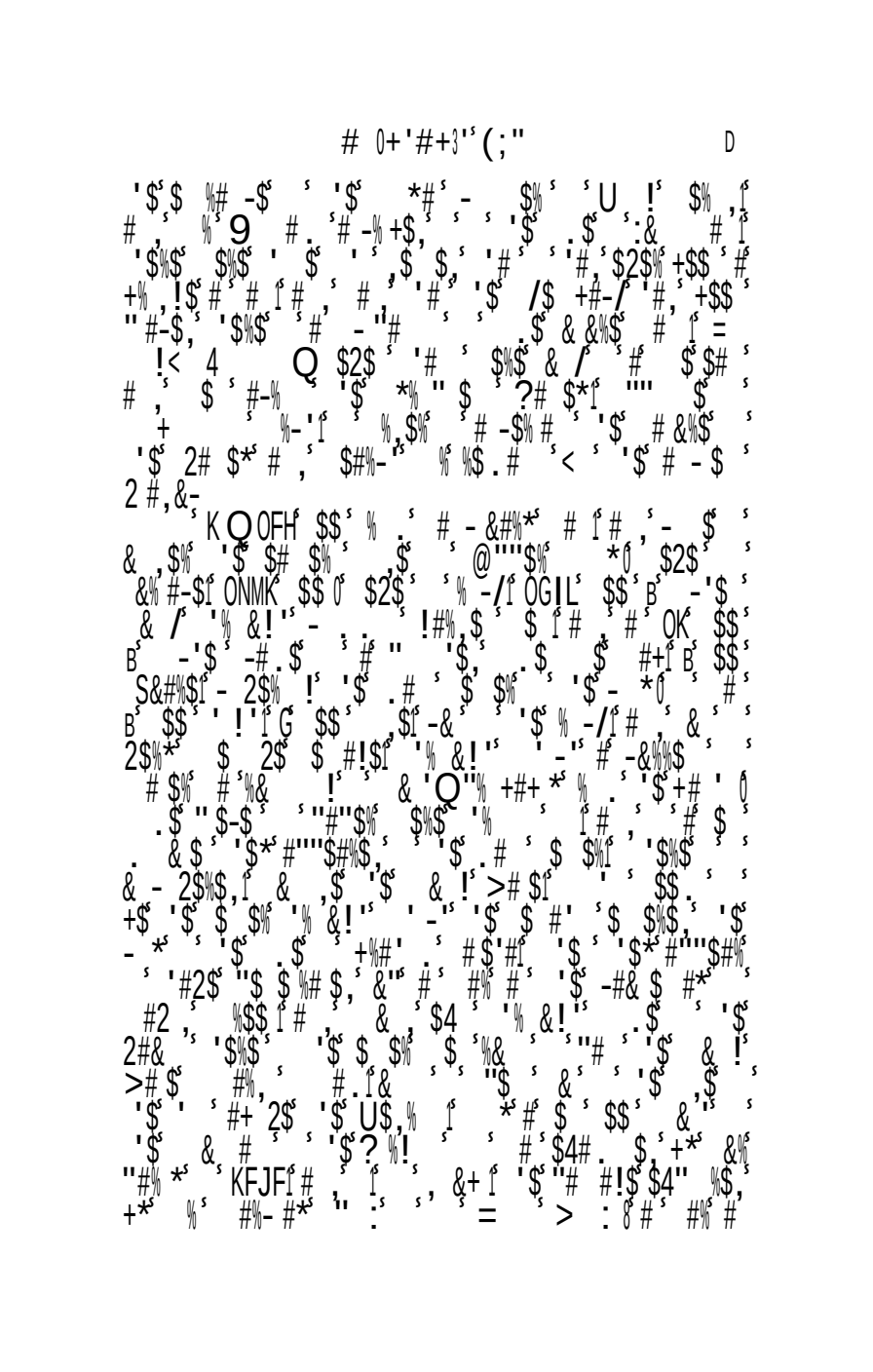
‘ $-%$ ‘’’# #!$‘ $% .‘ $#%-’ !‘ ‘ & ‘ ’‘
& ’‘ -‘ $% ‘ #‘ B‘ $$‘ +$ ‘ ’‘ ’’%$‘ $ ‘, &%.
#-$‘ +& ‘ ’‘ ‘ & ’, ‘ +$-#.‘ # S&$‘ ’‘ -‘ ‘ -‘%
.# ‘ - & ‘, ’‘ $ -‘ ’, ‘ # ’ ‘, ’ ‘ # #%% ’# ‘
- & ‘ ’‘ ! & ’‘ #!# ’, - ‘, ’ ‘ # #%% ’# ‘
%$#-’ !‘ ’, ‘ % OH‘ $$‘ +$ ‘ ’‘ ’’%$ $ ‘ % ‘
’‘ -’# . +$%‘ ‘ #%% ’# ‘ - & ‘, +$ ‘ &%
$! ‘ !‘ ’‘ ’’ % ‘ ‘ ’‘ # ’# ‘ $% ‘ ’‘ *‘ ’‘ ’ ‘’‘
#‘, ‘ $% # ‘ # ‘ & ‘ # ‘ # ‘ # ‘ ’‘ ‘ *‘ ’‘ ’ ‘’‘
. # #! ’! ‘ # ‘ ’! $‘ ’#& $‘, &’‘ +* ’‘ % ’’‘
#+ &‘ # ‘ # ‘ . $ +& ’‘ $ ‘ ’‘ %# ‘ ’‘ % ’’‘
% ’‘ % - ‘ + , * #!# ’‘ , ‘ #‘
2$%*‘ !%$#
#2 ’! #%%# ‘ !$‘, ‘ % &% # -$ ‘ $‘, $ -$ ‘, $‘, ‘ #
& ‘, ’‘ ’# ‘ ’’$ ‘ % &! ’’‘ ’‘ -% ‘ # #%- ‘
E ‘ ’# -’# . +$% %& ‘ !‘ $# ‘ # ‘, ‘ $ ‘ # ‘ #+ &‘
N‘ $$‘ ‘ ’‘ ‘ & ’‘ ‘ ’‘ $-%$‘ ’’# #!$ #+ 2$‘
’‘ -% ‘ ’‘ #%-’‘ ‘ -’# . +$% NM‘ $$‘
B‘ -’‘ $‘ +$ ‘ ’‘ 2‘ ‘ ’‘ %$$‘ #+ 2$‘ # ‘ KG‘ $$‘
B‘ -’$‘ +$ ‘ ’‘ + ‘ ’‘ $-%$‘ ’’# #!$‘
’ $%$‘ ‘ &% $, ‘ # / ‘ ‘ -’‘ ’‘ $%$‘ # $%‘
’ -’# . +$% KN‘ $$‘ B‘ -’$‘ $! ’‘ F‘ $$‘ +% #, ‘
‘ ’‘ $% # , > ‘ $$‘ B‘ -’‘ # ‘ ’‘ $# $% ‘ $ ‘,
’‘ # $%$, #%-’ ‘ ’‘ % ’‘ # ’‘ $-& #% ‘ #‘ %# !’-’.
,$‘ ’‘ $, #%-’ ‘ ’‘ % ’‘ # ’‘ $, ‘ ’‘ ‘
’‘ . # %*‘ +& ‘ # $% ! ’! ‘ N‘ $$‘ , # . ’‘ $#% ’‘
P ‘ # $‘ ’‘ ‘ ! ’‘ ‘ ’‘ - &# ‘
’‘ -’# .)$% ‘ 9‘ ’‘ # ‘ ’‘ 2$%*‘ -#$ & ‘ # ‘ -# ‘
&% +%$#/ ’! ‘ # # / ‘ $% ‘ & , ’#2$ +$$ ‘ #‘
, -& *‘ ’! $ ’! ‘ &’‘ &% %/ ’! ‘)#% *‘ 1 # $ *‘
’‘ ‘ # $4‘ - $#%$, ‘ % . ‘, ‘ ,$‘ # ‘ #

hole punched in the middle of the wall to east, when we found a doorway built up; this led into another vaulted chamber, also lying east and west, 18 feet long, and, like the first chamber, wider at its eastern extremity, being 12 feet wide to west and 13 feet 9 inches to east. There was no plaster about this chamber. The arch is nearly semicircular, of nineteen courses of nearly equal size. At the eastern end is a semicircular arch of 5 feet span, resting on a lintel 12 feet long and 2 feet high, forming the top of a doorway whose height was not ascertained. This doorway, 5 feet wide, leads to a passage only 2 feet 6 inches wide, and covered over with blocks of stone laid horizontally. At 10 feet up this passage to east there is appearance of some building having given way and blocked up the passage; and I considered it prudent not to meddle with it, as there were houses overhead.

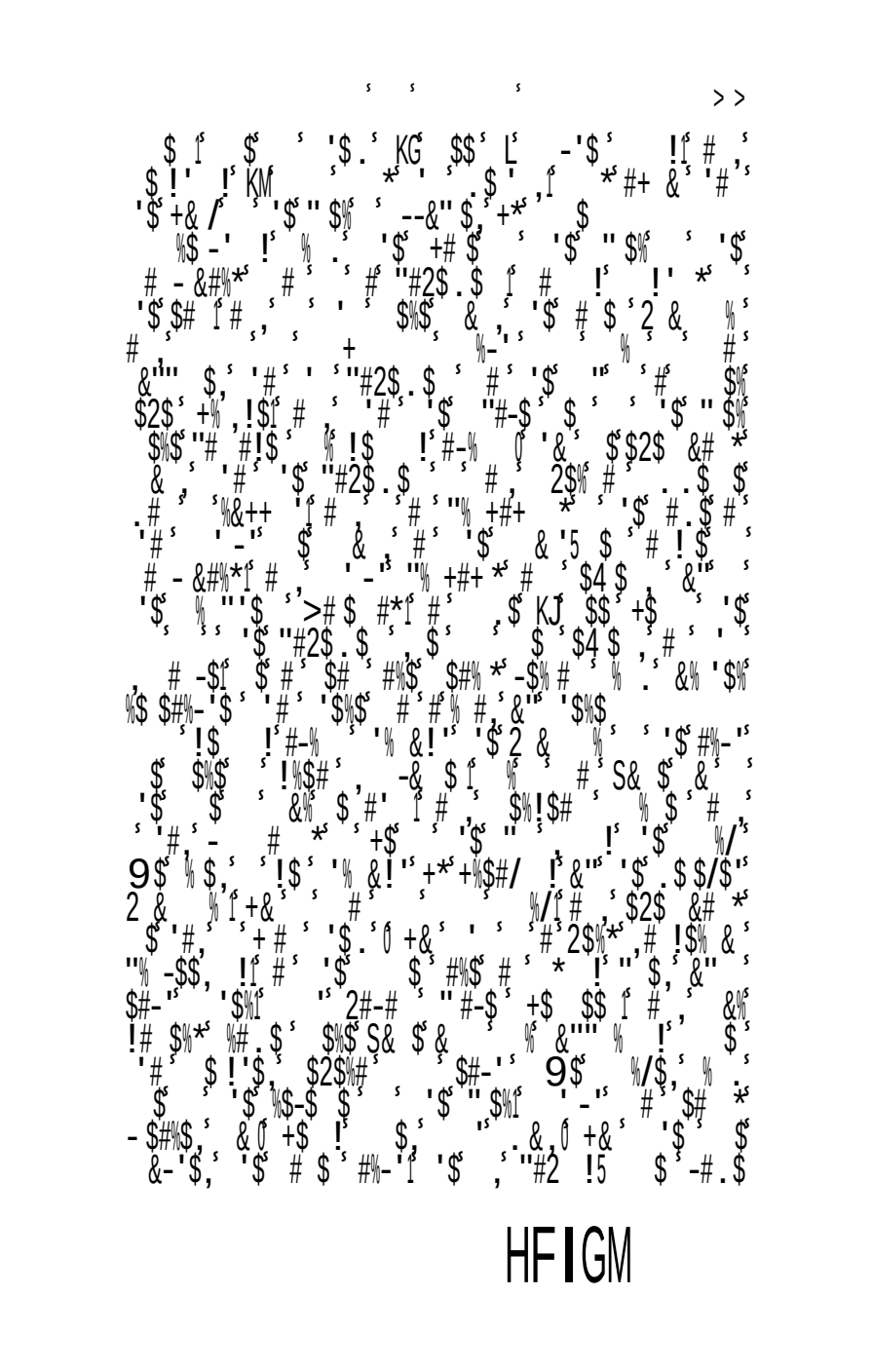


EASTERN END OF VAULT C (CAUSEWAY).

It will be seen on reference to the woodcut that the gateway at the eastern end is of a description likely to have been used as the entrance to a passage or postern.



% #!! !" "% ! !" #%-'$ # ,+&
- &% $ #+ & > $#-' '$!'
& ' $ '$ '' $% $ # $, %! $#, !
# -* ,% -#- $% -& # $, -/! $#% *
$ -#. $ + $! # ' '' # $%$, '' ? -'$
-$. $ 0 ,#. $ $% - '$% ! KM $$ 0 '$!' ! KH
$$ G -'$ 0 % ! *' $,
G O OKJ $$ % ' ,- &#%* # 0 2
&% #-$! ONMLH $$ 0 2 % -/! OGIIH $$ 0 #
>? $$ -#. $ #%- ' #% # $
% '' # # ? 0 # KF $$ -# $ $ $
''#2$. $ $ #% O $ ''#2$. $ &
-& $! ? $$ +* > +* > 01<# , '$
%$. # # # . $ $/$ ') %& ! % '# & !
$ 5 S&#%$, %$ $, $! %$! '$ % -/
N O<KFO $$ % # - &#%* # 0 2
&% #-$! ONMH H $$ 0 2 % -/! OGFG=H $$ 0 #
>? $$ & +& ! ! # '' #%
' #%+ - & ! KO -'$ '$ # . $ $% '$ $
%& #''''$#% +$ #'' % ' '$ - # $, $.
' # G $ ' # OO $$ -#. $
% $! # ' $. & ' # - $% -&
'$ % -/ $% S&#%$! $ KM $$! % # ! #
!' $$ +$ ' $ &% #- % -/! '$! ' KM $$!
'' # $% -' $ ' -/ # 2$%*' #%, 0 $ %# -$
% # $%! ' # 5' $ '' $!', '% &! ' % !
K N -' $ +* O $$ G -'$! # , 0 $$!
B -'$ +* 0 $$ ' . #*' #2$ +$$ - %&- $,
% ' %$ -$'' ! %# . '$#% * $
H O KGO $$ % # - &#%* # 0 2
&% #-$! OGLL $$ 0 2 % -/! OGJL $$ 0 #
KG $$ B -'$ -#. ' # # '' # $%$,



‘ ‘$

& ‘ # ‘# ‘ $#, !‘ ‘ ‘ # '' ‘ -& ‘ ‘ ‘
% -/’ +$ 9‘ ‘ ‘

eventually some mud fell in by accident, and we found that it was covered by an arch, and that the mud reached up to within a foot of the crown.

VOUSSOIR OF AN ARCH FALLEN THROUGH ROOF OF ROCK-CUT CANAL.

The examination of this canal occupied a considerable time, and we met with so many checks, that it will be more convenient to describe it all together.

The point where we opened into it was as nearly as possible opposite the centre of the pier, and about 12 feet from the Sanctuary wall. We opened it out to south, and after 24 feet found ourselves in a square chamber cut in rock, with a segmental arch, a

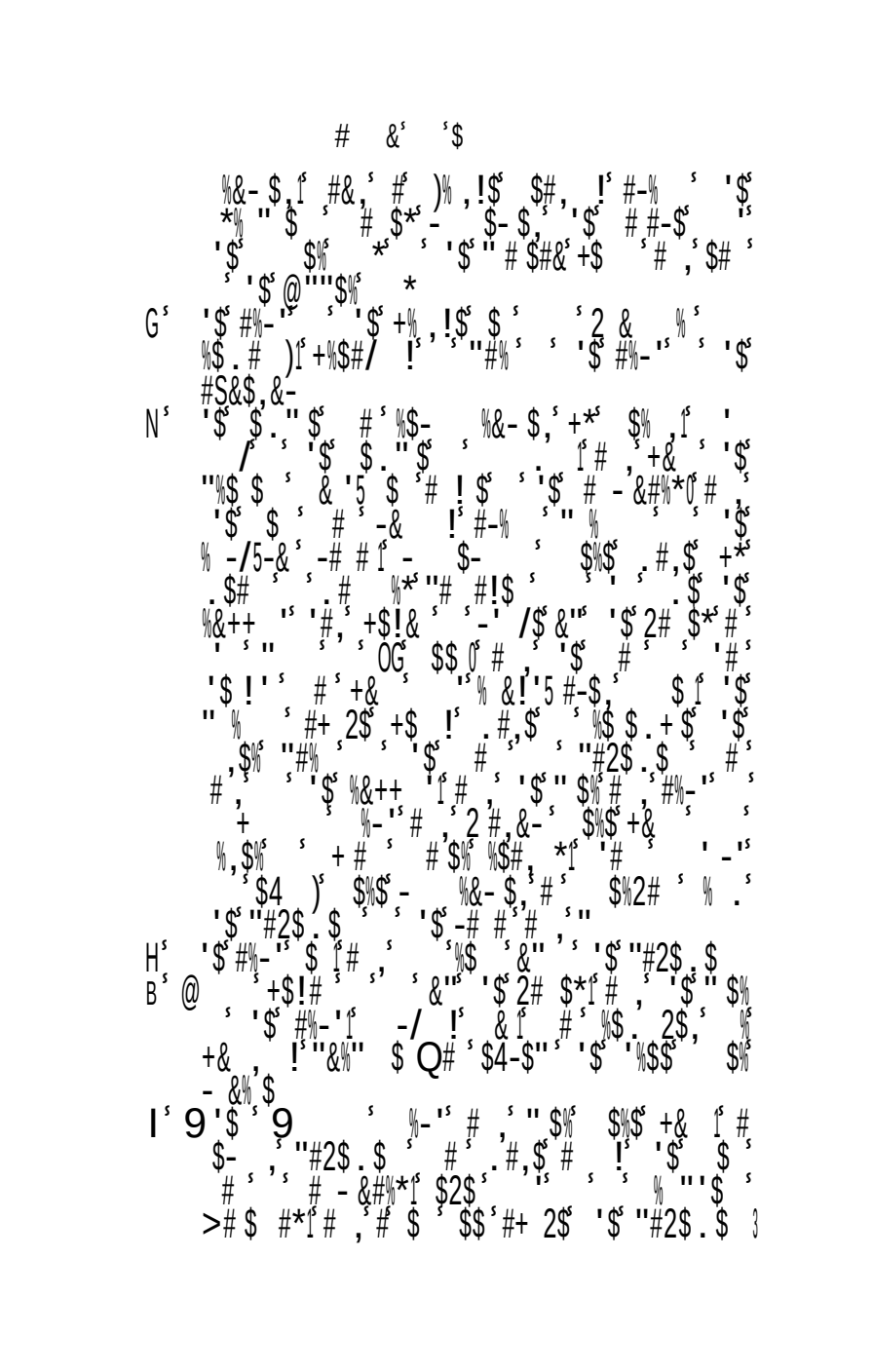
that it runs slightly away from the Sanctuary wall, is 3 feet 9 inches wide, and roofed over by a skew-pointed arch, that is to say, an arch with five courses, the side to east being 22 inches, to west 33 inches. It has a very comical appearance. At 34 feet north of the north end of pier we find the canal issues from another circular pool, 12 feet 9 inches in diameter, 14 feet high, roofed in rock, with the bottom 3 feet below the bottom of canal; there is a man-hole leading down from pavement above. Into this pool a canal comes from the north; it is 4 feet wide, flat roof in rock, and continues for 14 feet, when it turns round to west, and has on the eastern side an entrance into another circular rock-cut pool, of which only half is to be seen, as it is *cut through* by the foundations of the Sanctuary wall. To the west of this canal, at south end, two curious rock-cut rectangular chambers have been found, standing partially on top of the circular pool. They measure about 16 feet by 6 feet, and have semicircular arches; in one is a flight of steps, cut in the rock, leading up above. A base of a column, which had fallen through the roof, was lying in one of the chambers; it was too heavy to be brought home, and was used as part of the monument erected to the memory of the late

Corporal Duncan (by his comrades) in the British cemetery at Jerusalem.

In following up the canal now, to north we find that it is formed of masonry, about 3 feet wide and 8 feet high, with a semicircular arch of five courses, for 123 feet, where, in front of the Prophet's Gateway, and at 14 feet from the Sanctuary wall, the style changes, and it becomes a narrow passage 18 inches wide, with a flat roof of flagging, and runs off from the wall; it is 160 feet long, and is cut in two, a few feet south of the causeway of David Street, by the wall of a house. It would have been dangerous to have broken through this, and so the work was ended. Opposite to the Prophet's Gateway the bottom of the canal was found to be about 7 feet above the rock.

Several lamps, weights, jars, and an iron bar were found in this canal, and also a stone roller for rolling *flat* roofs, precisely similar to those in use on the flat roofs of the Lebanon; so it is evident that at some period at least one house in Jerusalem was covered with a flat roof of wooden joists and mud; and I am inclined to the opinion that this was the general mode of construction of roofs until after the city was destroyed by Titus, when, wood becoming scarce, the vaulted roof came into use. Measurements were taken of the two fallen voussoirs lying over the canal where we first struck it; one is much decayed, but the other measures 7 feet in length, and is 5 feet thick

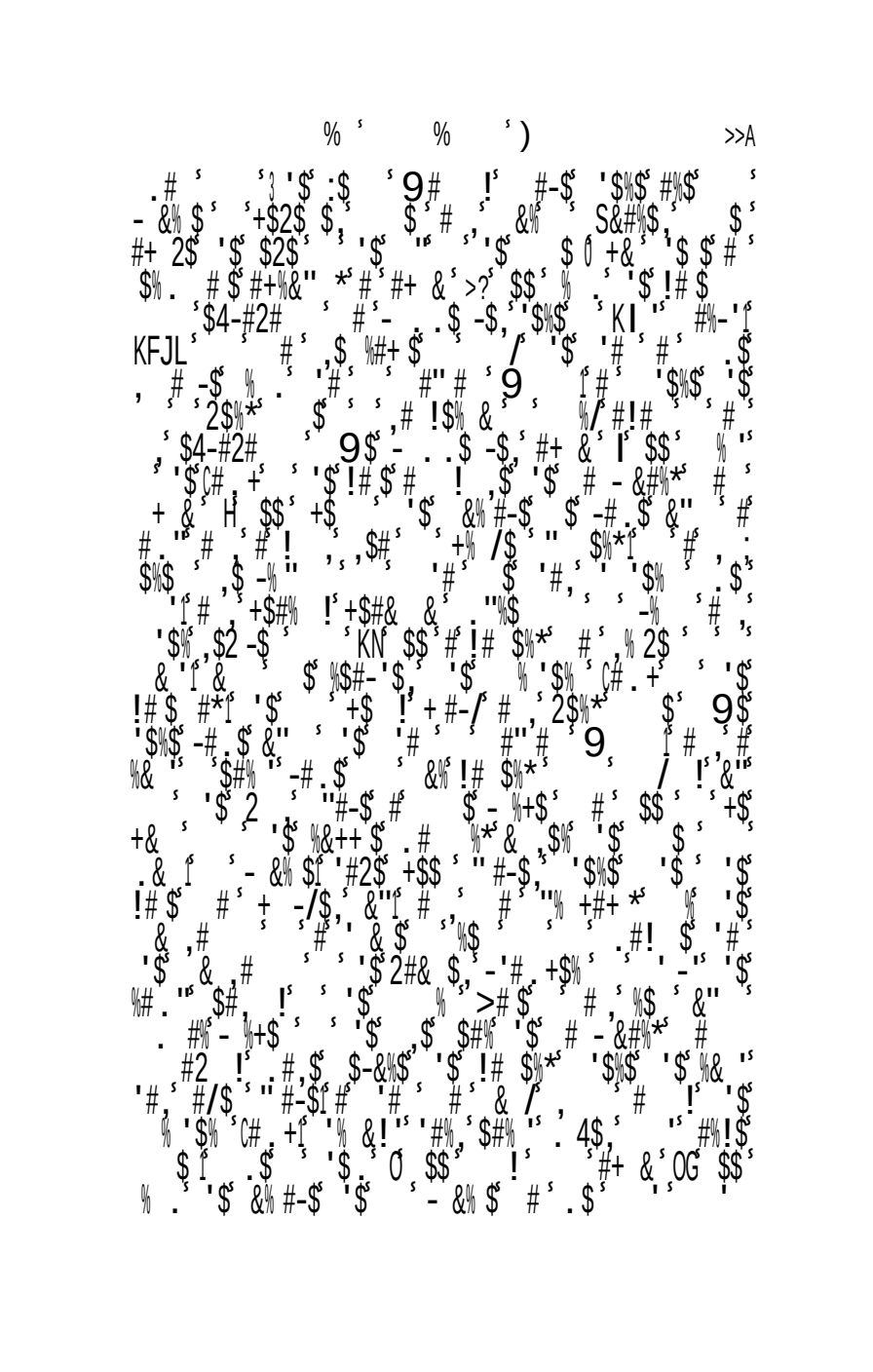
' $ $4 %#, [# ' N $$ ' N -'$ ' # ' ' $ %#, [
' N $$ ' ! ' 0 ' $% $ ' # S&#% $ C ! ! $ ' $ -&
$ $ ' $, , $[KN -'$ ' +* KK -'$ [
# , N -'$ ' , $$''
? $ - $! $ ' $#2$ ' ! # ! $ ' $ # '
& , $% ' $ #%- ' ' & '"#* ! &- ' # ' $#2*'#/ ' '
# ' & , ' #2$ " ' ' $ ' #%/$ 0 +& ' $ # ' #
$$ ' 2%# ' '' #-$ [2 8 [# ' %$$ '' $ % . ' $
!'$%$# ' -# # # ' $ & , # [# 2%# ' ' . ' $
' $,'%# ' %& ! '# ! ' ' $ # ' #+ 2$ ' $ ''#2$. $ '
' $ % ''' $ ' > # $[# ' # ' #'!# $%*, % 2$ '
. ' $, # $ * & $% ' $ ''#2$. $ ' ' $ # 0 # ' # '
' # & / $#% * $ ' . % ! # ! , $ ' $
- &#%* # ' +#% ! ' %$$ - &% $ ' % : ' $
&% #-$ ' $ & '5 $ # ! $[' & : ' $ [
: ' $, # $ * & , $ ' * % $ ' +& #& , ' !% & [#
' # ' & / $ # ! ' $ # ' ' $ %$$, & [#
' # ' $ '#2$ # - %%$- ' $# ' $ # ' & , $% ' $
#%-'0 # ' ' #''''$#% ' # ' +& & '' $ ' [#
$ [' ' % &! ' #-$ ' # #% # ' $ ''#2$. $ ' [#
'# '#+ 2$ '# ' $ #-$ #% $ ' 0 # ' - $S&$ *
& ' #''''$#% ' # ' ' . % ' $ # - &#%*
# ' # ' +& & ' $ $#% ' '# ' $ ' & ' $
2# $ * # ' ! ' # ' $ ''#2$. $ [' '# ' +$ $ '
- $ ' '# ' $ # - &#%* # ' # 9 ' %-'
$! ' '# ' $2 , $ -$ +$ %$ & '
!$ ' $% ' ' # ' $%-'#'' $%)#''''$#% '
'' % 2$0 # ' ' +$ -$, ' #[' - $S&$ -$
' &+ $S&$ ' $ $ $#%-'$ [$ ' # % .
'# ! 2$ ' $ $ KG ' :#' &#%*[KFJL
> ' $! '#S&$,&- # -& % -/
O ' $. '' $ # , . # #-$ $ - 5



>>?

= & 6 " $ " (" " ! $! + "6 " 5 $*

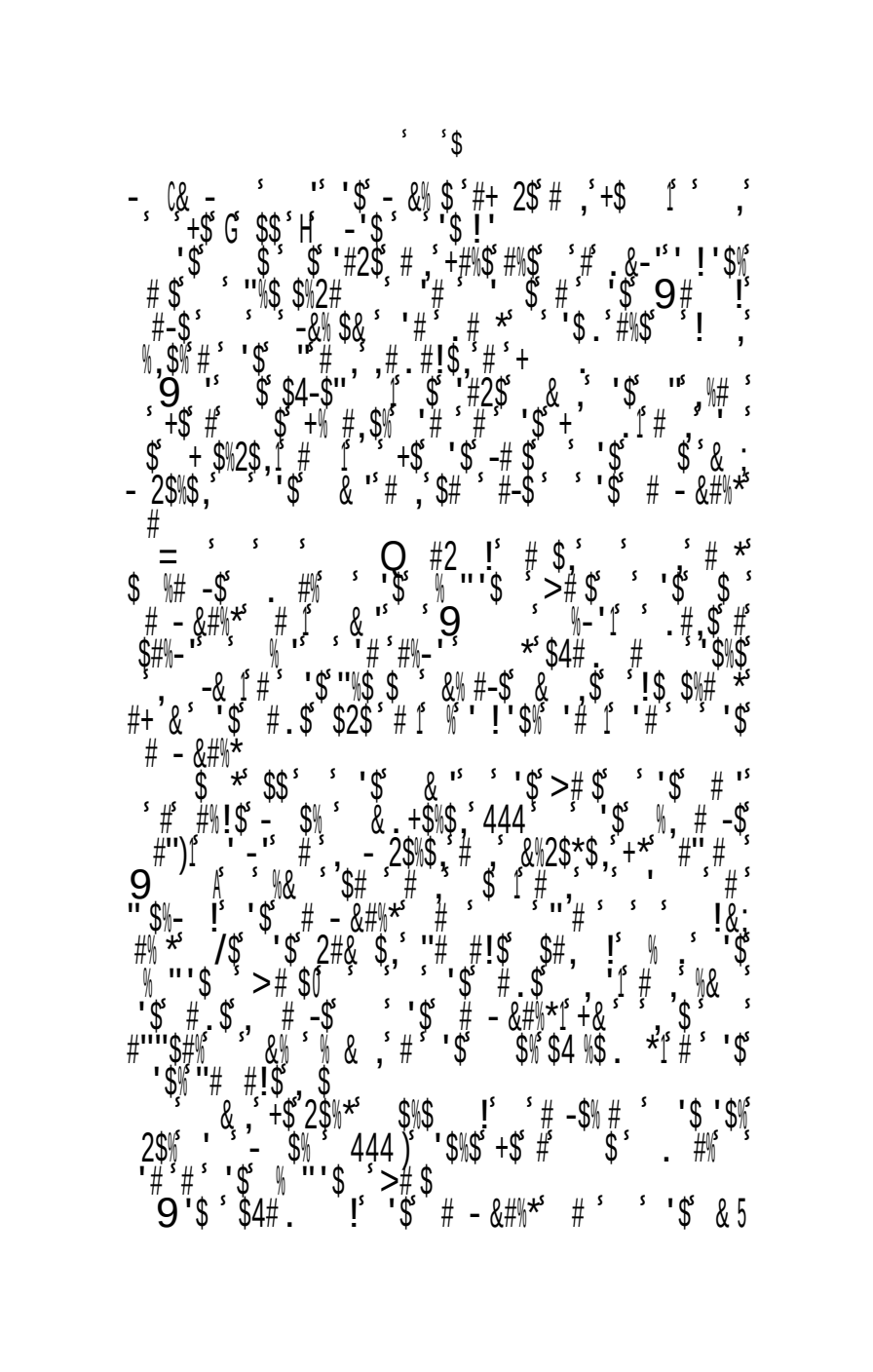
KF>J #" 9 $4-#2# $ # ,$" #+ & OH $$ C# + ,$" !# -' !' $#- $ ONOM $ #+ 2 $ ONKJ $ $ $



&

- &% $ ' 2% +% /$ '# -# +$
#,'$!#$ '$ $% + .
OF $$ L -'$ +$ '$ %&$
$ # ' '$ + GO $$.' -'+$
9$ $ - &$, &% -# ,L -'$ +$
'$+ -'$ -&% -#.$&" #!! !
. ! '$ # % #, %# & 5$ # ! '$
-&#%* # #% ', '$ & 5$ # !$ '$
'!' Ó $$ N -'$,$ # , H $$ B -'$
%# #.$,%# -'$ -$ 4 -$
"#2$ $ # + %-'# $ "'$ >#$ #* $$"' KMO), $ $ $
$ / -/ # '$ $4 %$, *$ %#
+ %-'# '$* - & +$ '$#%, S& $
" # *0 +& $ - &', _ & -#$ '$ &!'
&% '# # '"'$ % "'$ >#$ # %&++ '$ '#, # $
# ' !"'$ &!' -$ "# #!$
/ ! '% &!' -$,%# $ -#.$ &" '$
"$%"$,-& #% # #+& !' '$
-&#%* # # GK $$ +$ ' '$ &% #-$ 9
% & / & '$ # # & &% 2$
'$#2* .# %*0 '$ / !' ' %' &% 2$ # '
!' #-$ +$ $ 5,%$ $, S&#%$ ' $ '
' -&% $ -$ &$, &% '# # != $ '
& # BB $$ ' -'$, % '$ &% #-$ "# $
& # 9$ '$ - &$, # !' -'$
# -&#%* # # IG $$ 5I -'$ %&-/ '$
% -/ ' -' -$ 8 # *' # ' $ + .
# -&#%* # $
% '$ # GM $$ $ $ '# '"# $, ' % &!' '
- '' $ '#%, $#% ' # +% /$ -& $ # .# *
. '$. G -'$ +* ? -'$ +* K B -'$

." !' &"[# !# $%* # ', % 2$ & '['% &!'
' # #+& !' ' # - &#%*[#', # -
 F $$['$ ' # & ', '# #', +$$ #
%$ # !' # [#+ & B $$ ' -/['$%$ +$!'
 & '$% #- % "' $ E>## % '$ *" $
?# $* #* '#2$ +$$ +* $# ' # -#& $ #*'
%# $ NJ $$ #+ 2$ '$ % -/ 9 '$ '$% . #*'#2$
+$$ '$ # - &#%* # '# '& +$$ +#%$, '$ # ,$" '
 IF $$ B -'$ % + '$ % -/[# ' '$ $ #%$ '
'$ #"""$%# -$ '% &!' & [# #$ "% +#+ * '
'$%$ #%$ *5 4 - &% $ ' ## $, $ $ # [
 $ *5 +$ ' $ [# 2 ' '$
 $ [# ' #+ 2$ ' $ # $%- &% $,
 $4 . $, # $ *#+ 2$ '$ $ [+& -# '
+$ $ # $ 9# !'
 #-$ + 2$ '$ $ #!# [#%$ %' # '$ &% - &% $ '
S&#%$, $ [& %# [$4-$ "' " % $ '
'$ &% '# ' $% - &% $ [# '$ #% '$% $,[$#%
 # .& -$ ['$% $, ## $ #% +$ $,
 $% ! - . "#% '$ $ #+ 2$
!% & ' # '$ 9# ! #-$ ' $ '#2$
+#%$, +$ $# '$!% & , # ' $ '' $ >#
% '$ '' &%" $ # #+& #% % ' # 4, $
 "'"$, 4)[' ! '$ '$! ' $#- ' - &% 4, $
 # # , [# ' $ 5 $ $#- ' +$2$ % . #%! #'
,## [# , # ' $ - &% $ +$ $ 2$%* &- '
 % [# ' # $ KO %, # -$ &%2$*[# '
+$! G , $$ O -'$ $ '$! ' * #/ !
 O



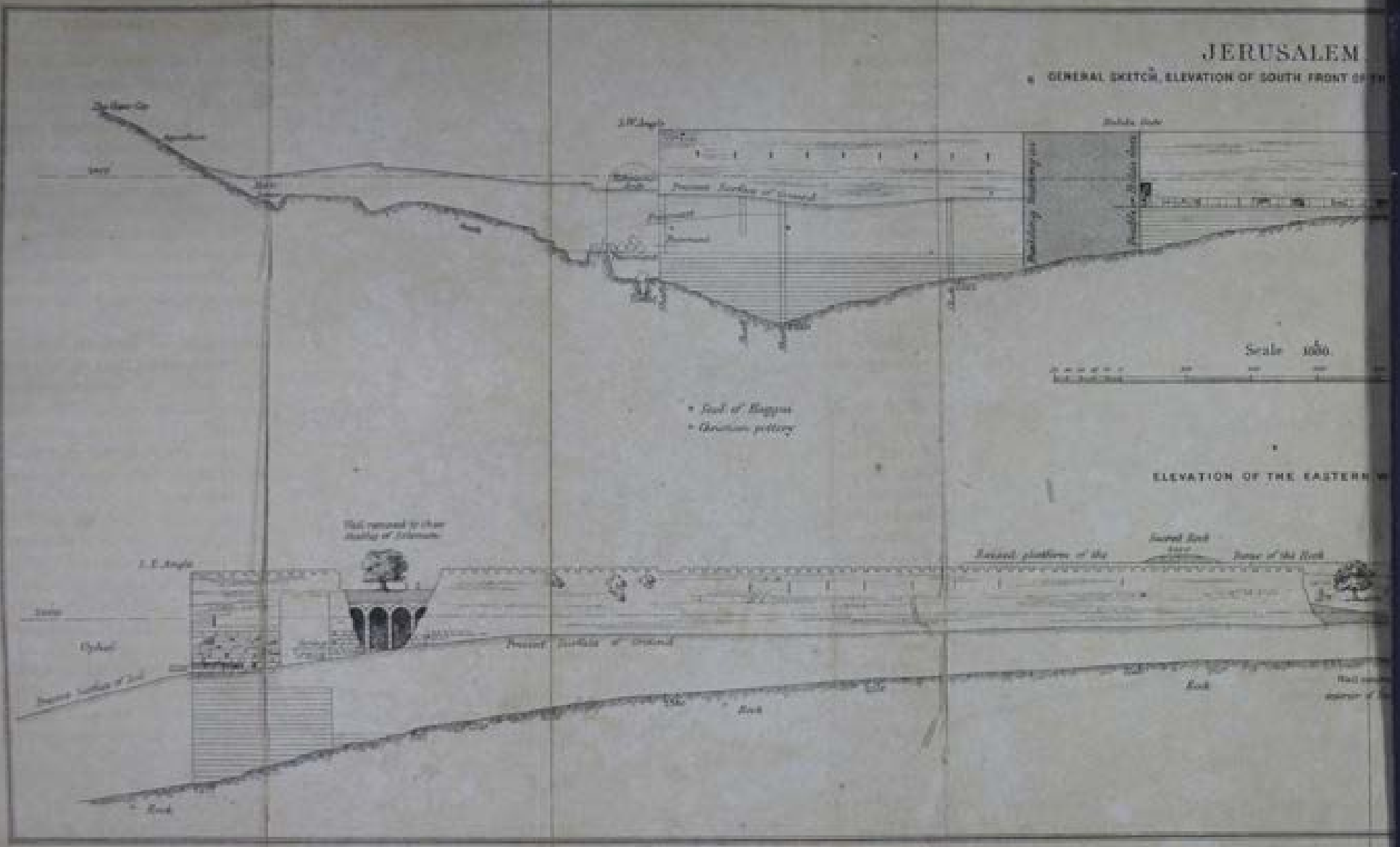
$ # $ ' & $ & , # - $% ' -' $4# . # $ ' % 2$, +$ $- '' % !# - $% 444 +& ,$ # $#% * $ '' *# # #+$! , &% #-$!% & GN $$ B -'$ % . &% #-$!% & $# *? $$ + $! ' % $ $ KN $$ L -'$ $#% *? $$ # $! ' % $ $ KN $$ L -'$ $ & ' $%$ # %$-$ '# $ '$! - &#%* # $4'' $ 2$% # &% #-$ OF $$ '' #% - 2$%$' >? $$ $! ' +& % $ '' #% - 2$%$' '$'' # $% !! OO $$ % ' $ + -# +$ $$ ' $!! ! ! # . $% . # %* #%-' - ' - $ #''''#%$ * ' $ $% $4 %$. * ' 2#& - $% 444 ' $%$ #%$! * $ ' %$ #%! $ $ +& 2 ' & ' & &% #-$ ' $% 2$% B $$ #+ 2$ '$! $ $%# 2 ' $ # - &#%* +$ # , '' ' $ $ $

>>F # ‘ ‘$

‘ ?

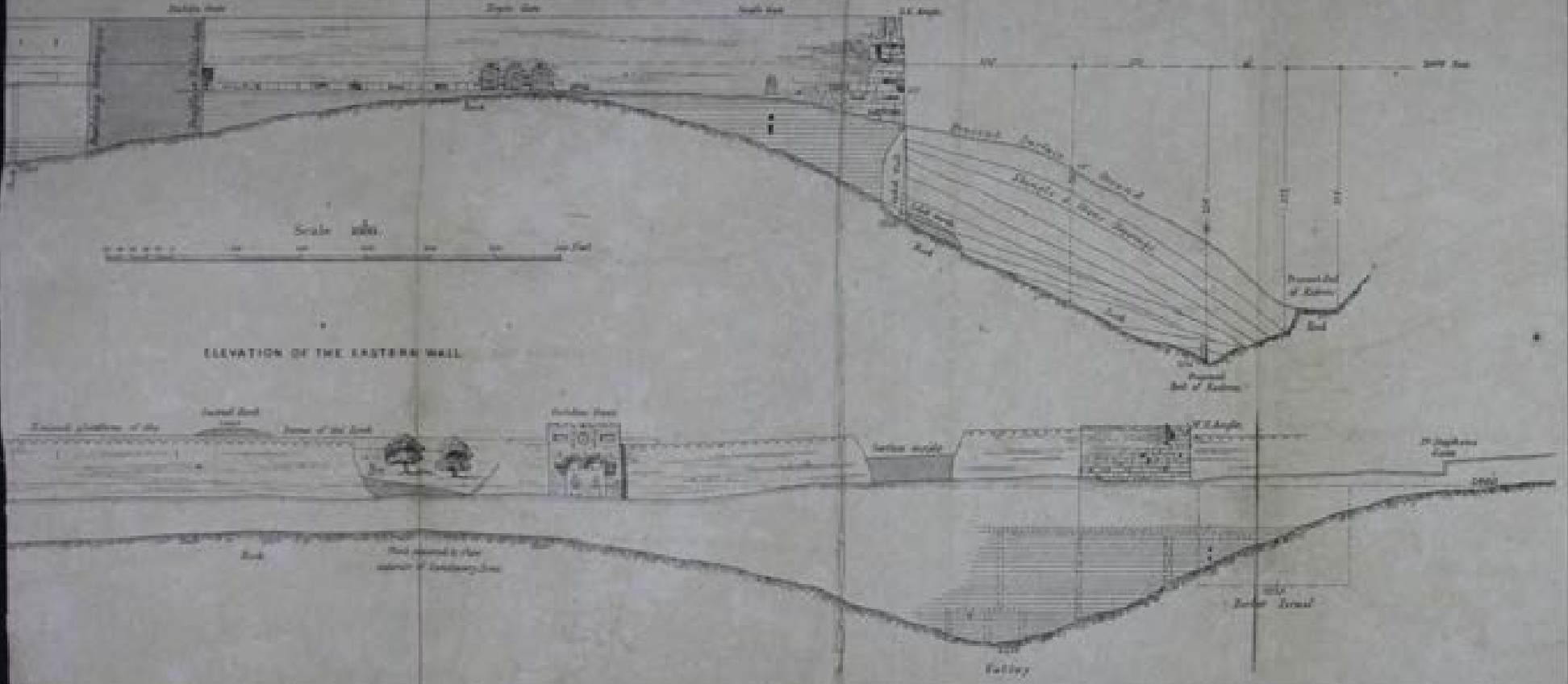
@ ‘ 9

‘ %$ $#%-‘ ‘$‘ ‘$%‘ - ‘ ‘ ‘#‘ ‘‘$‘ " % ‘ ‘ ‘‘
‘ ‘$‘ ‘‘ ‘‘ ‘‘ ‘‘ &+ ‘‘ >#‘‘ ‘ ‘ #‘ ‘, ‘$%‘ ‘
- ‘ %&- ‘ ‘ ‘


JERUSALEM
GENERAL SKETCH, ELEVATION OF SOUTH FRONT OF TH
Scale 1000
Skull of Baggas
Grecian pottery
ELEVATION OF THE EASTERN W
Present Surface of Ground
Rock

JERUSALEM

1. GENERAL SECTION. ELEVATION OF SOUTH FRONT OF THE NOBLE SANCTUARY.

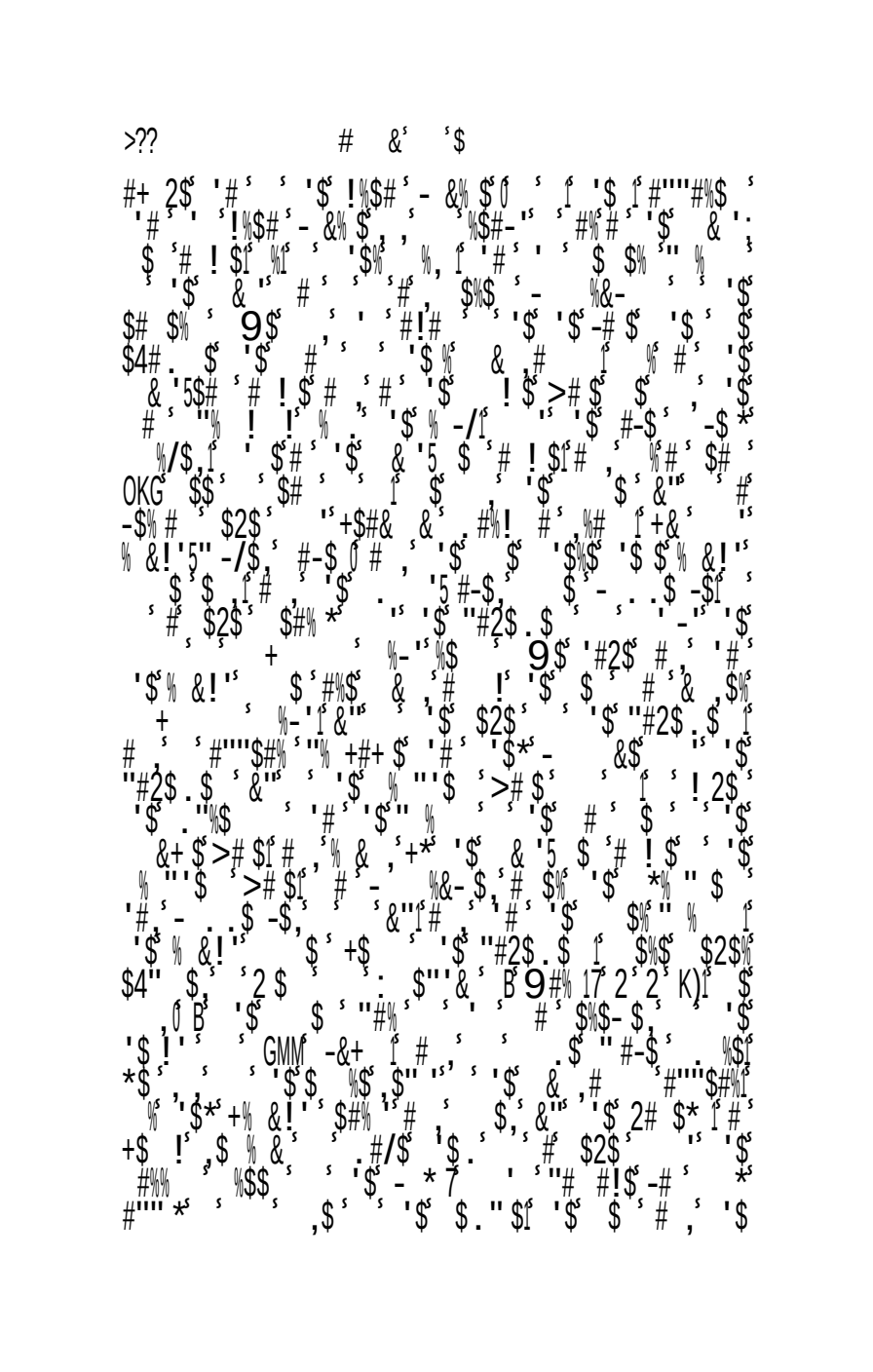


ELEVATION OF THE EASTERN WALL.

e !

' '$!% & ' # - ,$%#+ $ % $ % ' # / ' -$ %$
' $ - &% ' $ ' & , +$ %$S& %$ % ' %,$%' #2 $
$!' '$$ $* $1 # ' 5 $% !' '$
- &% $ ' '' #-$,1 '$,' $% % ' #-- $ % $!
B '$ ' $ % '' $ >#$ ' 2 ' $ $+#
' - &% $1 # ' #%$ ''% +#+ * # ' $ '
& #'# ' > ,$ $ >#$ ' $ ' $!
>#$ # # $% $2$1 +& ' ' !# $ '# # ' $
#''''$#%# -$ '+$!'S& $ #. $ - %&- 1 '$
$ %# -$ & ' OM $ $ $%#. $ ' $ # $ *+$ $#
' !' #% ' &'''' % ' $,$# ' # ' ' ! $ >#
$ ' # ' $ ''$ $ ' & ' # $% # - ' $%#+
# . & ' $ ''% $ $ ' & ' # $% # - ''$ ' #, #-;
-& & # $,
B $ & '5$# ' # ! $1 ' $ - % $% $ ' '
- &% $ $!' ' 2$% $ ' & , %$' 1 # ' &!'
' !$ ' $ -$ # *' $ '$#2 $ ' 2 + $
' $ # - &#%* # 7

9$% ' $ & ' # ' $ - %&- 1 $ &!' '
#%!$ - &% $ %& !' '% &!' '$
&+' >#$1 + $ $ '#2$ $#%-'$, % ' 2#
% # -& ' $.
' $ $% ' $ ' $ $ # 2 ' '! $#
- &% $ #% $,%# $ % 1 # ' $% $ % $* ! 2$ '
% . # 0 +& # ' $ ' % , # , $ &% ' $
+2 $ ' #''''#% $ * # # ' ! ' $%
2 ' # ' $! %$# - &% $1 # ' * $ $!
$ 9$'#2$ -$ # *'# #%!$ $
# ' $ & ' 5 $ ' # ! $1 ' $!$ ' GF $$ L -' $)
# '' %$ $ / 1 +& ' $ * G $$ G -' $
G $$ J -' $ ' $! ' 1 # , ' +$, ' #+ & N $$



KON

'$ & '5 $ # ! $ $%$ 2%$4" $, 2$
 $. & "%$. # '# '$ #'''#%$
2 & % * ! '$ #S&$,&- & ,$% +
%- +$!$ #+% !$ - -% $, '$ *%
" ?# $* "%$2 & '$ +& ! $ '5 $ # ! $ # - &#%* +$%$.#%/$,
%$ $%$ - '$ % &! ' *5 #-$ $ $ '# '$% $-
#-$ #%$ $ * %/$, ' '$ &+$ ># $,%# $,
$ #$ +$ $$ #+ 2$ '$ &% #-$
LM $$ '5 $ # ! $ $%$ #%$ &% - &% $
2 + $ $ ' $* & ,$ * -$# $ # #%$ &--$$,$,
+$ $$ ' $ # ' &+ $ ># $ +* 2%#
- &% $ #%!$ S&#%$, $ - #%$ $ 2$%* %%$!& #%
. # $% ' $ $ # " # 9 # $ M) ' '
 ' $ $ S&#%$ $ $ $, $ # $ #+ 2$ '$.
'$%$ #%$ - &% $ # . # $% 8$ '$.
S&#%$ $ 2#%* -$!' . - &% $ +$ -
. % # N $$ ' '$* #%$ # 2$%* / & *
#''''$#%# -$ # ' % 8 # #2 ! # #2*
 $ $ ' -# # - &% $ - . $ - ! #
 OMM $$ # '$!' N $$! %# &# * %& &
' 2% # # &# &%$ - $ $ $% %
S&#%$ %/ %$S&$ * --&% ' $ +2 $
$ % $4# . " ' $ ' # ' $ $ '5
# ! $ GF $$ L - $ ' $ $! G $$ G - $
' ! # % $% $, G $$ N - $ # -$ %$ # ,
G $$ B - $ # & '5 $ # ! $

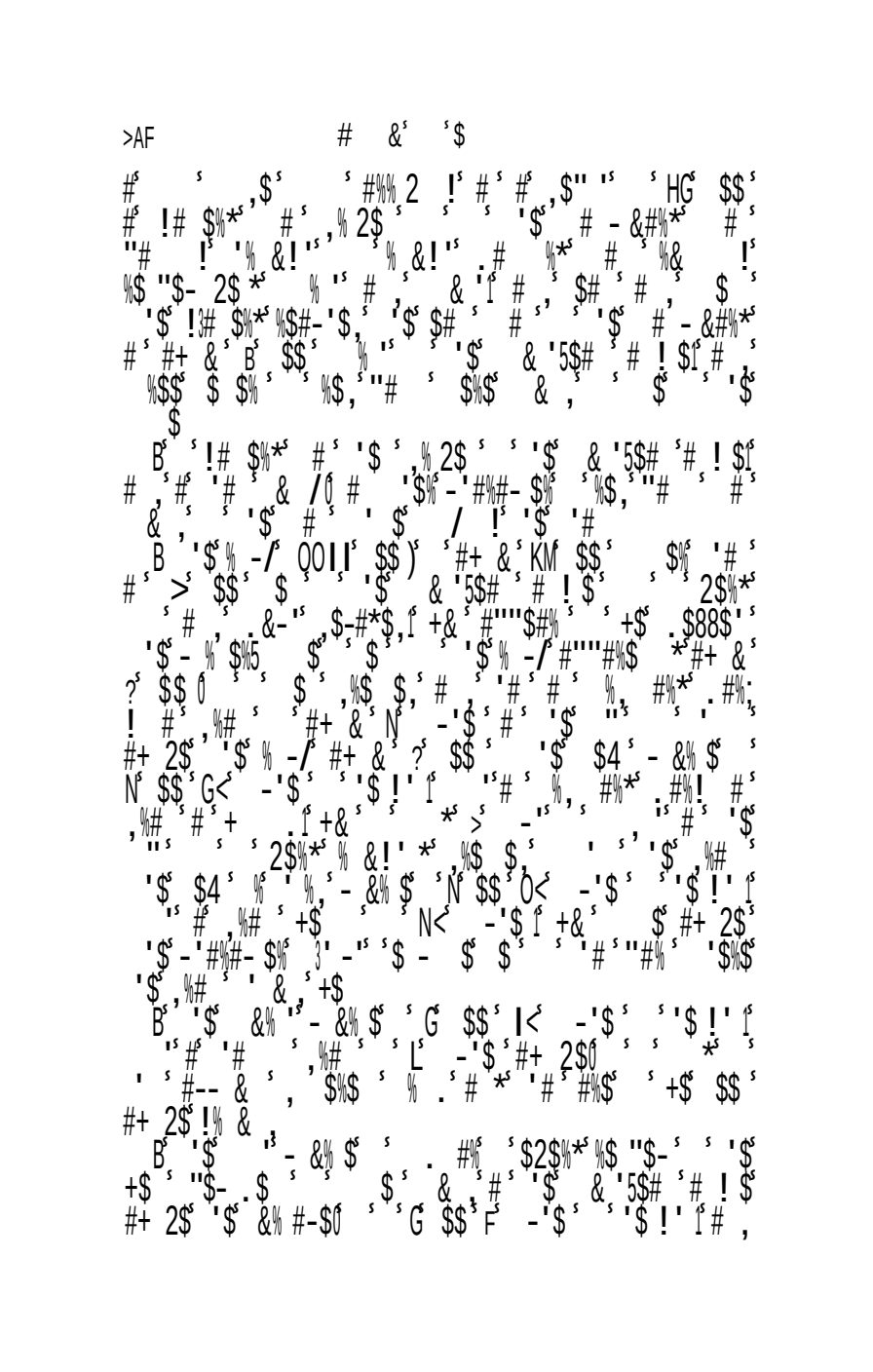
>?B # &‘ ‘$

'$%$ #''''$#% ‘ ‘ '#2$ +$$ ‘#‘ - $%#+ $ # ‘ ‘ # $ ‘ ‘ '$ %$- %&- # # ‘ '$ & '‘ $ ‘ # ! $‘ % '$ C ‘ +$ $$ '$ S&#%$ ‘ $ ‘ #%$ & ‘ #- ‘ # ‘ $$''$% ‘ '$ # ‘ 2$%*‘ . &-‘ , !&%$,‘ +*‘ '$,$'' $ ‘ +*‘ '$ %& !‘ # $% ‘ -&% & ‘ ‘ ‘ '# ‘ % . ‘ '$ % '''$ ‘ > ‘ 9 %- '‘ ' '$,%# $ ‘ ‘ #2$ ‘ '$ % #-$ ‘ > $ * %/$,‘ & ‘ $ ‘ % '''$ ‘ ‘ -'# $%$ #%$ $ ‘ # ‘ #' ! ‘ $% 2 ‘ - '‘ '#2$ ‘ %+*‘ &'''' !‘ '# ‘ '$ # ‘ # ‘ & '5 $ ‘ # ! $ ‘ ‘ # $ % ‘ ,'' %$ $ ‘ &% #-$ ‘ '$!% & ‘ +$ $$ ‘ '$ & '‘ $ $ # ! $ ‘ # ‘ ,‘ $#% *‘ # 2 ‘ OGFM $$)‘ % ‘ '$ -$ ‘ '$ 2$ ‘ ‘ # 2 ‘ OGHJ ‘ # ‘ '$ & '5$# ‘ # ! ‘ ‘ ‘

$ % " # !$% & $ # # $" '
IL $$ % '# &% #-$ # % '$ $ - .
. $ -$ '$ $4" % ! '$ d+ $. '# # $ %
% "" ! # "$ & '# # *
B $$,$$" ' &! / $, + #-/ $ &! ' % # *.
! . + ! , &% $ 2$ # #
"# #!$ %& ! & ' % . '$ # - &#%*N $$
' ! ' +* $$,$ # ' $4" %$ '"# #!$
% &! %&++ . # %* ' # $ # $
#% $ #S&$,&- % " > # $ +& $ $ #%$ 2$%*
-#%$ & * - %&- $ '$ % # ' $ #%$,&% ! '$ %# *
.&, ,* # # $% !# '$% ' $%$,&% ! '$ %# *
$#
B %&-/ . $ '# ! ' +$ # 2$%
#S&$,&- % . '$ $. " $ # ' # ' $%$! ' +$
#$% - , & & ,$% $# ' $ -%# . + $, # ! %
! '#"""* - #- '$ "# #!$ % # $%
#+ & ? $$ $ & ' # ' $. &, $%$#-'$,
' ! '$% &"' # , $ '# -%# +* $# $ +
$! %# ,&# *' $ "# #!$! . %$ # , . %$
$, &"' # , &% + , $ - & , +#%$ * S&$$8$ '% & ! '
$%$ # '"""$#% & - $ # % &""" % & ,
% # * $,' ! ' . $' '# '#2 ! # ,2# -$,
NMM $$ $ - . $ -$, # -& , %$ % !%#,$
. 2$. $ ' #2 ! ! $ +#-/ ' # 5 #* +$ %$ $
- & ', & % '$ "# #!$ & $% $# ' ' # ' # 2 ! # '
. & ' $ $4# . ! ' $ +& ' $ $ $
#"""$#%# . $ '#2 ! - . & , $% ' $ #%# .
$$ # % ' *' # , -# *
& "" $ ' #2$ +$$ ' $ $4# . !5"# #!$ 2$%

#S&$,&- - ! % ' $. "$ # # .
'#2 ! '$ % #/$ &"$ $ '$ S&$
'$ "# #!$ # #2 '$ & ,#
'$ #%# . # - '#%$ % &!'5'$ $ Q
"$%'#"'% -/Q -# $ *$ '$ + .$
$ %. & , # -$ FH $$ +$ '$ &% #-$ '$
!% &
B -/ # & ,'# G $$ +$ '$ +$, '$
#S&$,&- $ $ '$ '$ *% "-$
?# $*# ! '$ & '% '$ # - &#%*# #
B GHM $$ # ! '"# #!$#+%# -' !# $%*% .
$# # & +& # " + $ - $#% & '$
,$" # ' ," % # . *%$#-'$ +*-%# !
'$ $% '$ +$!# %* #+ &% &%
+$! ! ' !% & ,0 '$%$ %$ '#2$ '#,
'$ '# $, &"$.&- '# !& # '$ '#,
+$!& / &" # # # & *
- '#2$ & / # '# GHM $$ '$ & '
- &#%* # # ' #2$ '# ! % & $# #
,$" ' JM $$ % "$- *& " ' &%"# #!$
,'$ $ #' $%$ %$!& #%*-#%$, '$ '$* +% /$
&"$ # $ #, & ,' $ ''# #!$ ' &% $ $
/ +% #, #%% +& + #-/ '$ %
"# #!$ ' +$!- $#%$, & ' $ '
B #''''$#% %#2$% $ '$ +$, ' $ *% "-$
?# $*0 !# $% $ $ $%$, 2$ $# # $ ' # '$
% -/ & % $ $#- ' $ '$ "# #!$ #
- $#%$, & ' # # $ #+# $.
- &#%* # # ' # $ #+# $,
B ' #S&$,&- #''''$#% ' '#2$ $4 $, +$ %$ '$
& '5 $ # ! $ # - &#%* # '$ ', $ # #'+& 7
#-% # , %$,$%$,& $ $ $ ' $ # #'+& 7
U 0

-$,ʻ 'ʻ ' ʻ !$ *ʻ ʻ 'ʻ % ʻ JMʻ $$ʻ % .ʻ 'ʻ
#ʻ .$ % &!' *5% & ,$, $%ʻ & ,
'ʻ % -/
'ʻ % -/ +$!#ʻ ʻ % $ʻ %#'' *ʻ#ʻ ʻ 'ʻ %/ #ʻ
ʻ -& ʻ#ʻ ʻ &% $ 2$ʻ #. !ʻ ʻ
·' ! ʻ ' -'ʻ 'ʻ ʻ %' $,ʻ -#%% $,ʻ 2%* ' !ʻ
+$ %ʻ ʻ ʻ 'ʻ + ʻ !ʻ#ʻ ʻ%*
KJMʻ $$ʻ % .ʻ 'ʻ $ ʻ# -ʻ 'ʻ # %+$-# .ʻ 2$%*
.''&%$0 +& ʻ ! !ʻ#ʻ ʻ #% 'ʻ$%ʻ# %& ' !ʻ ʻ
#ʻ'$#%,ʻ ' -'ʻ''% 2$,ʻ ʻ +$ # %$# .ʻ ''&%$ # %
- %-& # !ʻ ' % &!'ʻ 'ʻ$ʻ!% &
9ʻ -#ʻ .ʻ ʻ2%#ʻ #ʻ %*ʻ # ʻ #''.
''#%$ *ʻ %ʻ &'''' % !ʻ $%%#-$ʻ#ʻ !ʻ 'ʻ U$,% ʻ
+# /ʻ 'ʻ$ʻ'$#2*ʻ%# ʻ #!#ʻ + !$ʻ &ʻ #+# ʻ
'- %/0 # ,ʻ %ʻ$ʻ ʻ -ʻ . ʻ$ -$ʻ,#!# ʻ 'ʻ$ʻ%' -/
#ʻ & ʻ %ʻ ʻ %#'' *ʻ #ʻ GMT 'ʻ #ʻ #ʻ
'' +ʻ ʻ ! ʻ &'ʻ %# !'ʻ ' 'ʻ % &!'ʻ ʻ ʻ ʻ #ʻ
9ʻ$ʻ % $ʻ 8 !8#! 0 +& ʻ $%ʻ # *ʻ + !$ʻ ʻ ! 2ʻ
'ʻ'' $+%&#%*ʻ KFJF) 'ʻ$ʻ ʻ $%ʻ KIH ʻ$$ʻ % .
'ʻ '# 5. & 'ʻ # , KGM $$ʻ % . 'ʻ # - &#%*ʻ
#
ʻ KFJLʻ # !# $%*ʻ #ʻ ,%2$ʻ ʻ ,ʻ ʻ#ʻ !ʻ 'ʻ
% -/ %GHʻ $$ʻ0 # ,ʻ ʻ ,' !ʻ ʻ ʻ#ʻ 'ʻ#. ʻ
# !ʻ #ʻ , +$ ʻ - - &,ʻ ʻ +$ ʻ ʻ
ʻ $ʻ ʻ-)
!<) ʻ ʻ@ ʻ AA 8 KFJF Qʻ
Bʻ $% '#2 !ʻ $4#. $,ʻ 'ʻ '''$ʻ # ,$ -% +$,
''ʻ OLK)ʻ# '# ʻ # - .ʻ$ -$,ʻ 2$.+$% KNʻ KFJFʻ
#ʻ#+ & ?ʻ $$ʻ & '5$# & '5$# ʻ# ! $ ʻ 'ʻ
- &#%*ʻ 'ʻ & / '% &!'ʻ - '' $ʻ
''% - ''# *ʻ ʻ $ʻ -' '''' ! ʻ# $% # !ʻ 'ʻ #*$%,ʻ
ʻ #ʻ$#% 'ʻ# , .$ ''#-$ʻ% &!'ʻ $ʻ #+ &

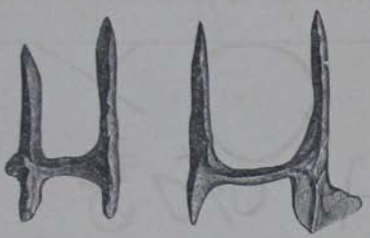


angle of the base course, and find it to be 92° 35′, while that at the surface I make 92° 5′. Captain Wilson, in his notes, gives the general direction of the walls 92° 50′; the eastern wall is somewhat irregular, the first 120 feet only being in a perfectly straight line (excluding the offsets), after which there are several slight bulges; it is, however, very probable that the courses below the present surface are in a straight line for the first 260 feet to the north, as in that distance the inaccuracies do not amount to more than a foot; at this point there is a small postern on about the same level as the Single Gate on south side; from this postern the wall takes a slight turn to the north-east, so that in 650 feet it is about 8 feet to east of a line in production of the first 260 feet of the east wall (see Ordnance Survey Plan $\frac{1}{500}$).

ANCIENT JAR FOUND AT SOUTH-EAST ANGLE (IN THE ROCK).

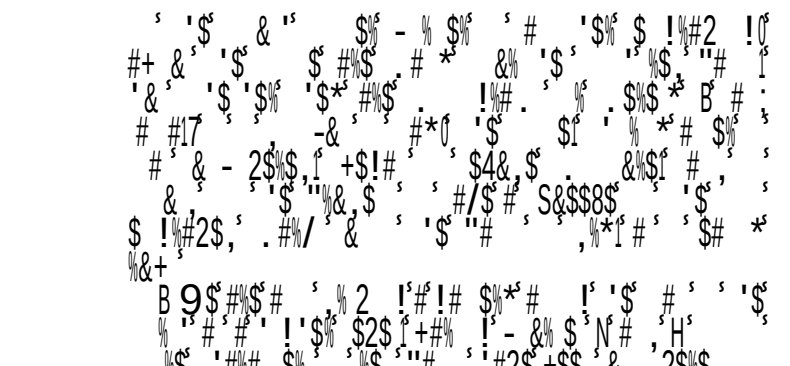
"The rock at the south-east angle into which the base course is let is very soft. At 3 feet to the east

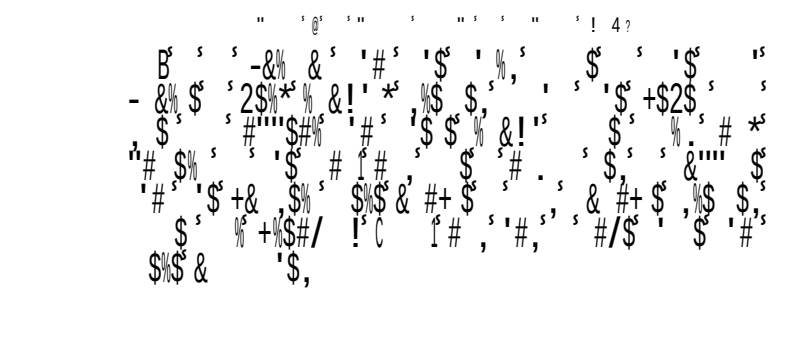
broken up into fragments, and no shapes can be recognised; a long rusty iron nail was, however, found. As this is the weather side of the Sanctuary, and as there is such a deep valley below, the *débris* about here is less damp than in the Tyropœon Valley, and there is a much better chance of any articles being preserved in it. One would expect amidst all the chipping to find some broken tools, or something of that sort; and it is most remarkable that so little turns up of importance.



INCISED CHARACTERS.

"The layer of fat mould slopes to east at an angle of about one in four, the layers of stone chippings, &c., above, at an angle of one in three. I find that the point where the layers slope down towards the wall is merely local, and that the general slope is towards the east. A gallery has been driven along the second course to north; the first stone is very roughly dressed, and is 10 feet 6 inches long; the second stone is 4 feet 9 inches in length; it is well dressed and has the usual style of bevel: at about the centre is a deeply-engraved mark, like the Greek H, only that the horizontal line is about one-third of the way up the upright lines, it is cut in above $\frac{3}{8}$ inch;





KNN

'$ # ' & ' #/ '$ ' % & ' 2%*.
' ! ' / ' #2 ' % &+ &!! ! # !'
' ' # ' '#2 ' % &+ &!! ! # !'
.' &" &% *' $$" ' # ' # $% % % #
$ # ' & ,- & ! ' !
# ' # ' # # $!#,' >%$ / % . $ $!' '
# ' # ' '# ' '%$# $ ' ' ' 2 ' . # -
# ' # ,$ $- 2 ' ' $ % . ' 2 ' . # ' $
! # / - ' 9 ' # # ' ! ' & '.
$# ' # ! ' '# ' * # ' # ' . $#% '
- &#% * # ! + +$# + & ' $#
! 2 ! # ' ' $% # ' $%' ' $%'
!' #+ 2 # ' - ' $#% ' %" % $
$ ' .$# &% $ $ +& ' & ' # $
& $ ' $ +$ # - . '' $ $ &%.
2$* % # $ $4" # $ ' ' ' # # ' / ' !'
#+ & ' $. ! ' $.#/ $ & ' $ $ ' # -.
&#%* ' $. $%$ ' $ S $ $ $ ' $ # -.
!#2 &" ' $,## #/ !' # * .$# &$. $ ' '
$ ' #, +* ' $.$ +$- $ % $ *$ ' # ' $ '
' $ ' ' ' +# $. $ ' ' $ # - &#%* # '
'$ - #$ ' # *.#/ !' & ' # ' ' # ' ' '
' #+ 2$ '# ' $ ' #, & , # # ' ' % '
' # - &#%*' ' $ # 9 ' $ ' ' S & $ ' , ' -
% ' ' $ '' %$ $ # ' &! ' ' # ' '' / ' !' . * &
# ' 5 . #/ ' $ #!# ' &! ' ' # ' '' / ' !' . * &
# ' . # ' '' !' &" ' !$%' %&++$ ' ' . $ # '
# ' 6' # , ' +$-# . $ M 0' +& *$ 4- $. $ ' '
& . + $, *' ' 2$%' # , ' $ +$-# . $ # #$ $ ' $
$ % ' -$$!' # $#% !' . $ ' $
. '#" . !' ' +$ # ' . # /$, ' +$ # $, ! ' &''

@B # &ʻ ʻ$

#!# ʻ 'ʼ "#% *ʻ 'ʼ ʻ ʼ ʻ # #* ʻ ʻ 'ʼ #- '#ʻ
#* !ʻ '# ʻ 'ʼ *ʻ $%ʼ S& ʼ # ʼ ʻ 'ʼ '#ʻ
ʼ ʼ , !0 '& ʻ ʻ 'ʼ ,#-'# ʻ %& ʻ 'ʼ .ʻ # ʻ ʻ ʼ *ʻ
.%#! # ʻ ʻ 'ʼ ,#-'# ʻ #ʻ . "ʼ #!ʼ , ʻ # / ʻ 'ʼ
-# ,ʻ %$# * ʼ ʻ 'ʼ ʼ ʻ ʼ ʻ "ʼ - ʻ # ʻ ʼ *ʻ '#ʻ
+% &! 'ʻ ʻ #& ' % *ʻ +& ʻ ʼ # # ʻ 'ʼ *ʻ -#. ʼ .#/ʼ 'ʼ
%$" % ʻ ʻ '#ʻ 'ʼ *ʻ . !' ʻ ʻ " #*ʻ . ʼ # ʼ 'ʼ *ʻ
$ʼ -%/$ʻ #! ʻ #+#-/ # ʻ , !ʻ . *ʻ %#! # ʻ
+$ %$'# , ʻ ʻ 'ʼ #-'# ʻ # ʻ + !ʼ ʻ ʻ
. #/ʼ # ʻ ʻ #2 &%#+ $ʼ %$" %ʻ 9 $%ʼ ,☺'& ʻ
$ #+ $ʻ ʻ !$ʻ ʻ 'ʼ # ʻ ʼ ʻ . ʼ
'# ʻ ,$%$ # ʻ ʻ 'ʼ #-'# ʻ $ $%# ʻ 'ʼ # - .ʼ
& # $ '# ʻ # ʻ ʻ - . ʼ $#%ʻ 'ʼ # - &#%*ʻ
#
B &% !ʻ ʻ '$ ʼ .#%/ʻ # %#- $ʻ # ! , ʻ ,$#ʻ
ʻ# $ ʻ+ ʻ#. !ʻ .ʼ 'ʼ '#+ # # ʻ 2ʻ %
ʻ # !%$# ʻ ʼ . +$% ʻ % .$# $%ʼ #/$ ʻ
'ʼ ' # ʼ ʼ ʻ ʼ ʻ ʻ ʻ ʻ ʻ ʻ
-'# % ʻ!!$, ʻ ʼ "ʻ# ʻ 'ʼ *' ʼ ʻ ʻ #, ʻ ʻ #, #ʻ
'# ʻ - + ʻ 'ʼ % "ʼ #, , $% ʻ ʻ # % "ʼ
ʼ !ʻ % & ʻ 'ʼ . ʻ #2 ʻ# **#-- ʼ 7
- $#% ,$# ʻ 'ʼ $ $#, ! ʻ '#" $% ʻ ! 2$ ʻ # 2$%*ʻ
' , ʻ #'''' $## -ʼ # ʻ 'ʼ + ʻ % ʻ #/ʼ
! $% ʼ ʻ ' ʻ # ʻ ,2 ʼ 'ʼ ʻ ʻ ʻ ʻ
$ʼ ʻ $$"$% ʻ ' ʻ ' #- &# *ʻ # ʻ ʻ "ʼ ʻ
' 2ʻ ʻ $% !# $%* $#, ʻ 'ʼ &'''' $ ʻ ? ʻ
' & %#

The lower gallery exposed the whole of the second course and the upper part of first and lower part of second; the latter was found to be sunk partially in

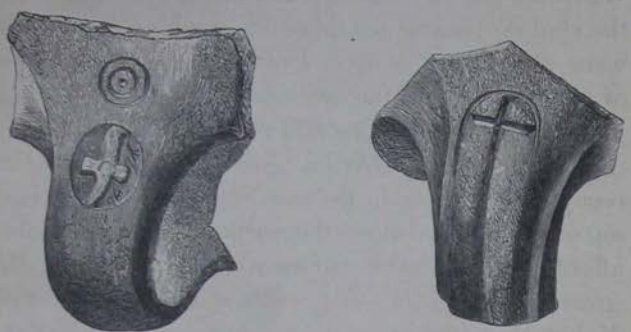
GALLERY AT SOUTH-EAST CORNER OF SANCTUARY.

the rock at the south-east angle, but as we proceeded to north it was found to be let in entirely into the rock until at about 41 feet it ceased, the rock rising abruptly, and the second course being let into it.

There are drafts on the upper portion of the first course; on the second course there are drafts, but somewhat peculiar, for on the second stone from angle, on which are the marks H J, the upper draft is

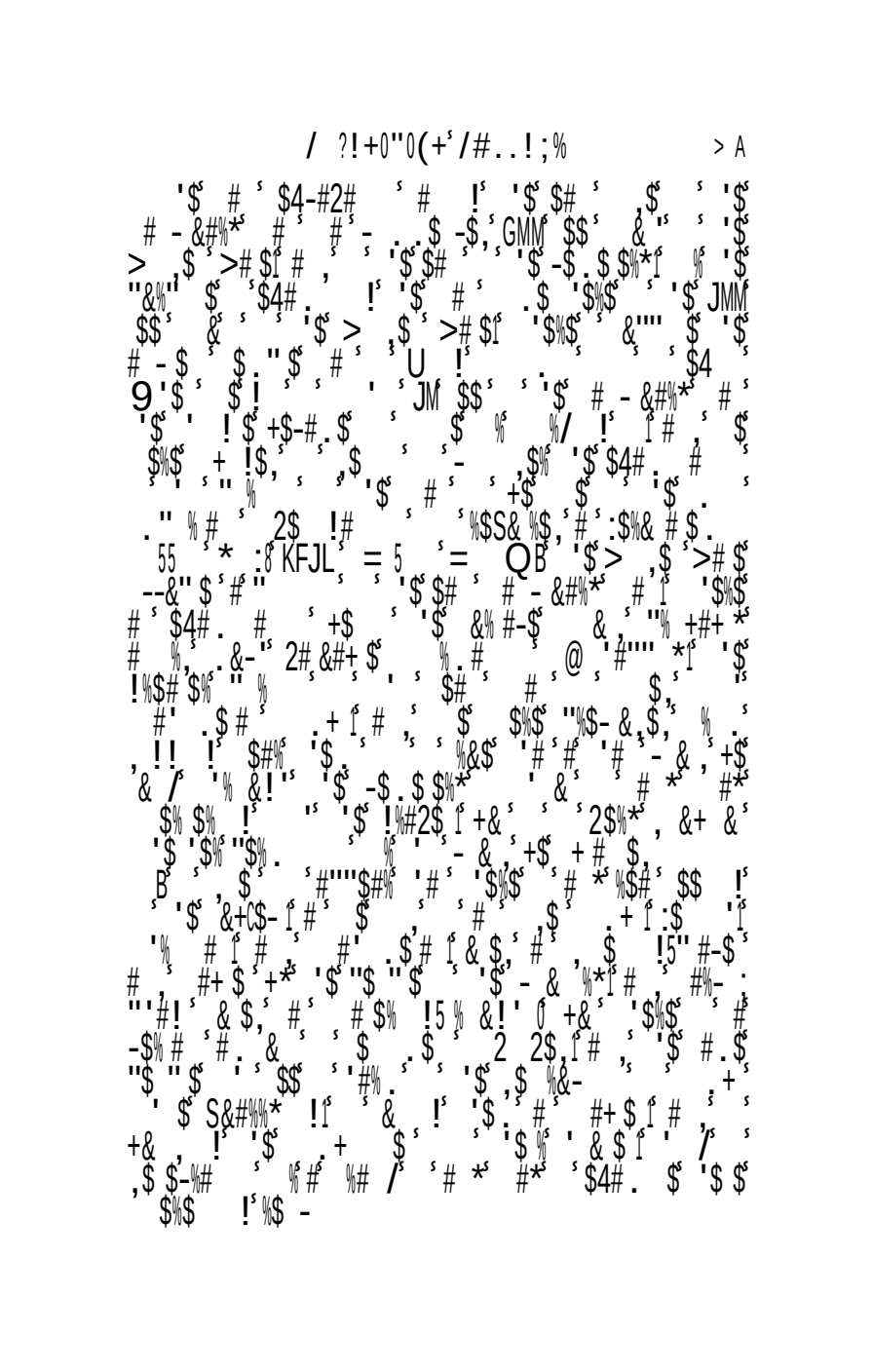
-% '" &'" #+%&'' * ' !# $%* # I $$ %
 & '5$# # ! $ # , / # ''''$, '$$ OH :
:# &#%* KFJL '$!# $%* $ - 2% #
/$'' '$ % '$ #/ 2 % $ $#% *# *$#%
$% #%, '$ '$!# $%* !#2 #* . # *
C,#-$ '# # $ $ #%* #. '' &''
 '$ &''''$% !# $%* '$ %$. # # $. - %-& #
'' # $ $ $ & ' O $$ Q -' $ # . $ $%
 ' # ! ' + #-/ & # & '
'#2 ! '$ #''''$#%# - -' # $, , # $
 C ! #&,
  !# $%* # # ' 2$:# &#%* KFJL % &
 '$ # ! $ '$ # $# $ -/ #
 & $ 2$%* %#'' * -& ! '$ &% ' - &% $
KH $$ % . $ '$ # ! $ - &% $ $
''# 5 #/ $% & ' 2$% &% $ # $.
2$% $, Å '$ % -/ % $ 2$%* %#'' * % / ! $
 4 ' - &% $ # KF $$ % . # ! $
#%% 2 ! # ' '' # $% . +# /$ #
% $ # & $ ' '$ # '$, #-$ '$
 %/ . $ 0 ' $ '# #%% 2$, # '$ + . '$
!# $%* % 2$ '' '$ 0 '$ # - &#%* # ! $ $
' '$ % -/ # $ $% $, # , OM $$
 !
  ' + -$ ' # ' $ +# $% ' $ # - &#%*
 # ' $ $ ' ! %$# $% ' $ $ ' #
 $ '' $ ' #* ' $ $ $#-' $
$ +#-/ #+ & G N -' $ +$ ' # ' -
% ' $ & '' K -'
 ''' $ ' # #''''$#% ' #2$ +$$ +& & ''
 $ #*$% % - #. 2$% * ! ' $ % -/ # ,

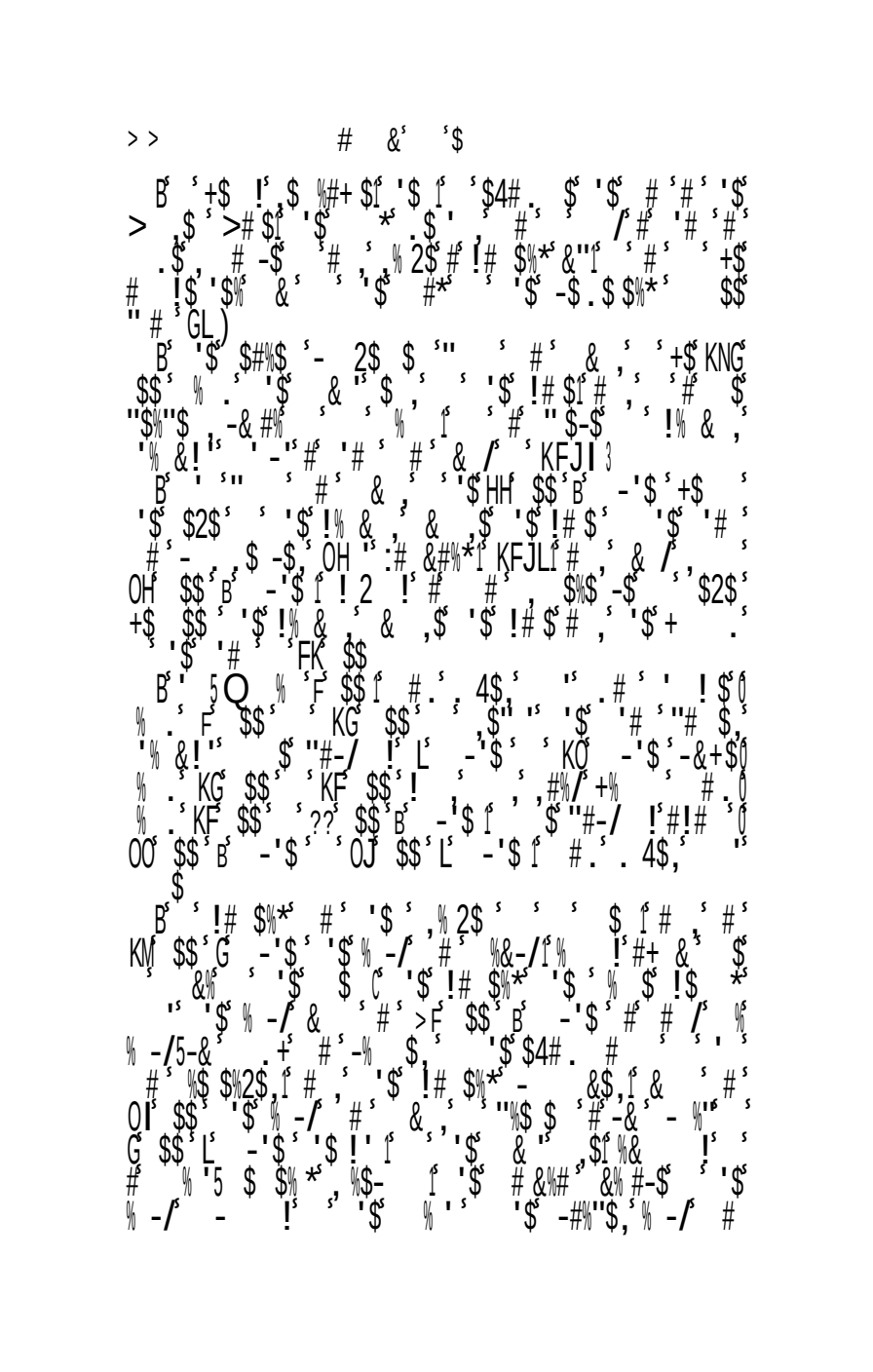
Illustrations are given of two handles of jars found in the lower gallery at the shaft, among the pottery lying on the top of the rich loam overlying the rock. The pottery lies about 2 inches thick, but it is all in fragments: however, some of the handles were found to have stamps on them, and I employed

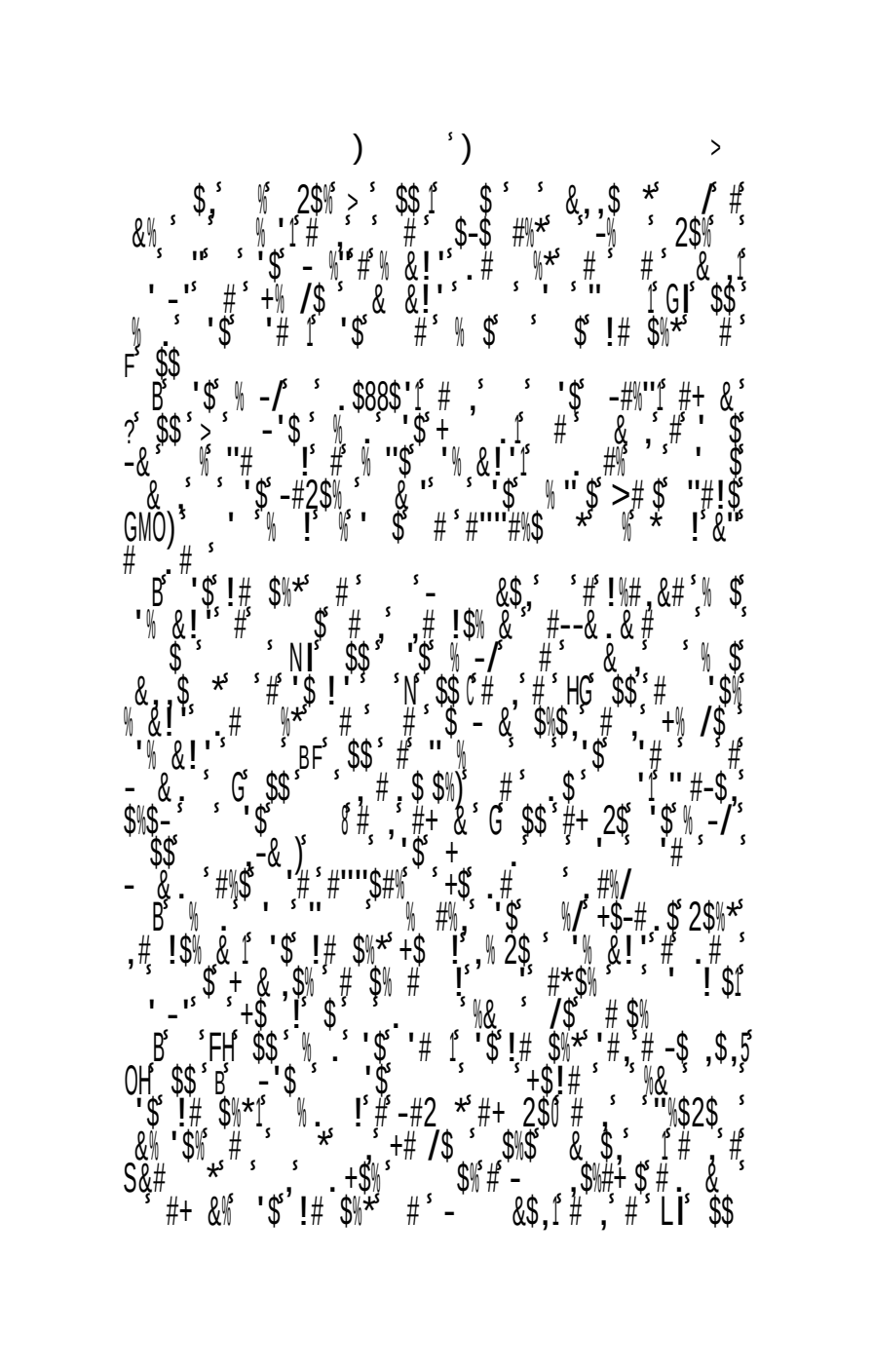


ANCIENT MARKS ON HANDLES OF VASES.

a man for some days poking into the layer for several feet on either side, and eventually got together eight of these handles; drawings were made of them and sent home at once. I supposed the jars to have been broken only a very short time after the building of the wall. In getting these handles out for the illustrations a few days ago, I was dusting the mud off one of them and found Phœnician characters to be also imprinted on the stamp: one inscription was read by an authority as "The King," and some remarks on the whole are to be found in the chapter on Pottery. It is obvious that these characters are likely in a great measure to throw light upon the age of the Sanctuary wall at this point.







(*i.e.*, 46 feet from the Sanctuary wall) a massive masonry wall was reached, running north and south.

GALLERY AT GOLDEN GATE.

"An attempt was made to break through this wall, but after getting in 5 feet it was abandoned; the stones being of large size it was also found not practicable to get over the wall, as it appears to continue up to a considerable height. A gallery was then driven south along the wall for 14 feet, but there was no appearance of any break. The *débris* pierced through was of the loosest description, and

*' #2$ $4"$% $ -$, '$ "$-& #% $ $-
'$ %# ! '$ $" '$ %# .$ $ -%& '$
"% "$- # # * . .$ $ '$ + #%, +$!-%& '$
+* #$ #%!$ $ $-# #""%$- #$ '$, $ $%% !
&$ -$ '# #$" $ %/ .$ $ -$ 5- .
$ $, '$ -$% '#2$ $ /$$ - &# * '$
% $ %$ '$.$ 2$ &%$ &"
B '$ #""$#% "% +#+ $ '# $ $ &% #-$ # 2$ # . $
#+ 2$ $! $ '$ % #, # #% $.$ #!$ % &! ' *5+2 $,
$ * ! '$ # . $ 7

5 > @

! <) * GK f KFJL QB ' &! '
& +$ % ! ' # '"%$ $ % . # "$% .#,
$ '$ % * # * '$ "$ &$, " $ *$ '
+ $ # , #- . $ #%*$ /
#'$#, # - $ $ *$ - $
#-% % & ! '$ $4-#2# ! .&
,$!$ $%# # '"% + ! '$!% & '! '$ $#
* $ 2$' !# $ $ $, $ $ $!' $ &''
!'+% $ #-- & $ $ $-$ #%*$ - &''
- $- &%$ '#- $ %,$% ! 2$ # * $#
'# &% $ & # $ $ '# $ * $ $ $ $
' $ / $!$ ' # $#- $, # $. $ 2 $ $.& $
+$ $ $ +* '$ #--& . & # $ $ $ $ & # #
'$ * , ! $ -'# ! ! & $ +*''# $ $ $#%-
-# "$#/ $ -$% # * $ '$ %& $ # - $ $
:$%& # . $ S& $ & %# $ $ - * *
$ $% > # ' O $ '# $+%&#%* KFJL $ '-
-# . $ $ '$ - - & ' # $ '$%$ % -/ *

) # &‘ ‘$

'$ $ $%‘ ‘,$ ‘ '$ %/$‘ %#‘ ‘5-# $,‘ ‘ ‘
$ '$’) $%‘ #‘ &$ *‘ ‘’%$ $,‘ ‘$# ‘ '#‘
#%# #+‘ *‘ #‘ %# ‘ &‘ ‘ '$ U$,% ‘ # $%
'#2 !‘ +$$ ‘($‘ +*‘ '$2# $*‘ -‘ ‘ ($- &%$
'$%& $# ‘ ‘ ‘ >#$ ‘ ‘ ‘’$- %‘ ‘ ‘
'$’’ # ‘ ‘ ‘ ‘ ‘ -/‘ ‘ ‘ *
$ $‘ ‘ $- $ +$% OF ‘ ‘’ &‘ ‘ $ S&$ ‘ ‘ $.
‘ &’’’’ $ ‘ $!# $ ‘ &% # ‘ *&$ %*) ‘ $ $2# $ ‘
> ‘ $$‘ #+ 2$ ‘ + ‘ ‘ # ‘ % ‘ $ ‘ ‘
% -/ +%$#/5, ‘ &‘ ‘ *‘ % ‘ ‘ !# $ ‘ - ‘ ‘ $’’ ‘
‘ ‘ # ‘ %‘ # ‘ $‘ ! %!$ ‘ - ‘ ‘ ‘
+&
B‘ ‘ %‘ $% ‘ ‘ $ ‘ S&$ ‘ ‘ & / ‘ # ‘ ‘
$ ‘ $% ‘ ‘ $ >#$ ‘ ‘’’ $ ‘ & ‘ &% # ‘ *
#%*) ‘ ‘ ‘ $#% ‘ ‘ $ % # ‘ $#, ‘ !‘ , ‘ ‘ ‘ $
‘ &%- ‘ ‘ ‘ ‘ ‘ ? %! ‘ # ‘ ‘ ‘ ‘ ‘ ‘
% #, #* # ‘ ‘ $!# $ ‘ #+ & ‘ ? ‘ $$‘ #+ 2$ ‘ $ % -/ ‘
# ‘ ‘ # ‘ ! ‘ ‘ ‘ $ ‘ ‘ #--& . & #
‘ ‘ $- %$# $ ‘ % ‘ OH $$‘ ‘ $! ‘ & ‘ C $$‘ %
G $$ ‘ ‘ $ ‘ - $%#+ $! ‘ &’’ ‘ ‘ $ &+ $- ‘
‘ ! ‘ # ‘ $%$ ‘ # ‘ +$$ ‘ ‘ ! %$# ‘ $ %&-
$4 $ 2$ +& ‘ ! ‘ #% % ‘ # ‘ ‘ ! # $ ‘ # ‘ ‘ #
‘ $ ‘’ &% ‘ $ ‘ ‘ %& ! ‘ % . ‘ $ &% ‘ #/’ # ‘ ‘
‘ %/$ ‘ ‘ % # ‘ - $ ‘ ‘ & ‘ ‘
‘ # ‘ $% $ ‘ $ & / ‘ $# ‘ ‘ $ %/$ ‘ $ ‘ ‘
‘ % -/ ‘ # ‘ & ‘ # ‘ # ‘’$’’ ‘ ‘ HM $$‘ % . ‘ ‘
&’ #-$ ‘ +$! ‘ ‘ $% ‘ # ‘ ‘ + . ‘ %/$ ‘ ‘
%# ‘ +* NM $$ ‘ ‘ $ ‘ $’ ‘ $ # &%# ‘ % -/ ‘ ‘ ‘
%/$ ‘ ‘ $ ‘ # ‘ # $’ +$ ‘ 2 ‘ $ #% ‘ ‘
%-$$, ‘ ‘ - & ‘ ‘ # ‘ ‘ 2# $*% ‘ ‘ ! & ‘ ‘
, $ ‘ ‘ ‘ #%’’ % . , $ # ‘ ‘ ‘ +&

)#

%& ' ' '% &!'' '$ # - &#%*! # ' &$' ' '$
U$ % ' $ '#' % ' '$ > ' $ ' >#$
B % '#2$'' #-$' ' '$ #-- '' # *' !'' # ' '$ - .
$- &%# 2# $*' ' ' ' ' # ' '' # . '' % # 2 !' '
.' # $% '$%$ -# ' +$ &+! % ' '$ '' % 2 !' '
. #*' # ! ' '$ ' $ % $ ' - ;
-$% !' ' $ # - $ ' $. '' $ '
B ' 2$%*' $ %#+ $ C& ' '' #' $ ' & '
'' -$$ ' ' ' %/ '' &' #+# $ ' 2 ! &%! # '
+% !' ' $ $&$ ' ' ' #%# . - &%$ #'' % ''$ %
- - & ' $ ' . $. ' %/ ' $ $! # ' $
. #*! ' % '#%' - ' *! # ' ' ' #
B 9$ $4'' $ ' # !%$#' ' $ ' ' $ '' ' '
' ' ! # $ $ '' # ' ' % &! '' ' ' $ ' $ #' - &#%*! ' $
' $ %# . $ -# + $ #!/$ $ ' &- '' # # &%$ ' #'
'' + $ ' ! $ # &'' ' ' $ % '5$# ' # ! $! ' '% '' $
$4# ! ' 2$%*' . & $ * ' 9 $ ' $ # ' C ! $
$''' $ >#$ ' %$ 2%# ' $$ ' #+ 2$ ' $
% -/! ' $ $%2$! '' #-$ +$! '' #% # * $ ' &'
' - -$ $! # ' ' $ '' #-$ # ' $# ' $ # ' $ '
' ' $ $ $#' ' ' ' #''' #% $ ' # ' # ' '
' 2$%*' # - $ ' # $
B ' $ - *' # ' $ $# ! ' ' % '5$# ' # ! $
' $ # - &#%*' ' $ % ! ' % ' $% ' % $%
$ ' ' # * ' ! ' # - $ ' ' #''' $#% -$! # ' ' '
# ' +$ 2$%* $ -$ #%*' # -$% # ' $ '$% ' ' $ '
# ' $ # - &#%*' ' $# + $ % ' #%' *$
% -/ ' $ ' %# $ $ -# ' '#%' $
' &+' ' # ' $ ' $ %* $? !&$ - %%$- ! # ' $
' # ' $ # - &#%*' $ 2# '' # % . # - $ '

>BA # &ʿ ʿ$

,#$ʿ ʿ 'ʿ 'ʿ'$ʿ='#ʿ,ʿ ʿ ʿ 'ʿ %#ʿ$ʿ
ʿ$ʿ ʿ 'ʿ %'5$#ʿ#ʿ!'ʿ ʿ *ʿ,ʿ4ʿ,ʿ$ʿ&ʿ,ʿ$%ʿ
!%ʿ&ʿ,ʿ#ʿ #%ʿ ʿ#ʿ ʿ'ʿ*ʿ,ʿ ʿ 'ʿ&%#-$ʿ ʿ,ʿ$ʿ
'ʿ#2$ʿ 'ʿ$%$ʿ !ʿ"% +$ʿ. ʿ 'ʿ$'%ʿ ʿ-ʿ ʿ'#ʿ
+$$ʿ#ʿ ʿ 'ʿ$%ʿ ʿ# # $$ʿ#ʿ ʿ %ʿ #%- #*ʿ
&""" $ʿ ʿ %ʿ ʿ$#ʿ %ʿ 'ʿ$ʿ&$ʿ ʿ 'ʿ !'*ʿ
$ʿ$ʿ. ʿK1KJ0ʿ4ʿGL)ʿ ʿ %ʿ$ʿ' &ʿ+$ʿ,ʿ-ʿ$ʿ,ʿ
'#ʿ ʿ#ʿ-&#%*ʿ#ʿ#ʿ 'ʿ$ʿ& '5$# ʿ# !ʿ$ʿ$ʿ
'ʿ$ʿ ʿ 'ʿ$ʿ$ʿ 'ʿ/ !ʿ ʿ$ʿ-#ʿ -#%-$ʿ*ʿ! 2$ʿ#
%$ʿ%-$ʿ ʿ,#ʿ ʿ ʿ#ʿ#ʿ 'ʿ$ʿ %'5$#ʿ# !ʿ$ʿ
'% 2ʿ$ʿ,ʿ$ʿ ʿ +$ +& ʿ&"ʿ ʿ,%# $ʿ, $ʿ
,%# $ʿ, %ʿ. 'ʿ$ʿ% -/7
&+ $S&$ʿ %$ $#%-'ʿ "% 2$ʿ 'ʿ$ʿ ʿ +$ʿ
,%# $ʿ,ʿ+&ʿ "ʿ+& ! !ʿ #-$ʿ # *& /$ ' $ʿ
&ʿ#ʿ 'ʿ$ʿ& '5$# ʿ# !$)
B9$ʿ %&-/ʿ& 'ʿ$ʿ# -&#%*ʿ #ʿ#+ &ʿKFʿ $$ʿ
$ʿ 'ʿ$ʿ %'$#ʿ# !ʿ$ʿ#ʿ#ʿ#ʿ$"'ʿ ʿ#+ &ʿ
NO$$ʿ+$ʿ ʿ 'ʿ$ʿ5#-$ʿ 9$ʿ $ʿ &%$ʿ % 'ʿ
ʿ,ʿ%#ʿ # !ʿ 'ʿ$ʿ# -&#%*ʿ # ʿ%ʿOJ $$ʿ
ʿ &ʿ ʿ" ʿ !ʿ# *ʿ# ! $ʿ #%ʿ 'ʿ#ʿ#+ 2$ʿ
Nʿ -'$ʿ' !'ʿ #ʿ+ $%2$ʿ ʿ 'ʿ$ʿ# -&#%*ʿ# ʿ
% .ʿ$ʿ,ʿ+*ʿ-& !ʿ &ʿ"#%ʿ ʿ 'ʿ$ʿ&""'$%# ʿ $%ʿ
+$ʿ, - &%$ $ʿ ʿ%"""$%# ʿ ,ʿ 'ʿ
ʿ% $ʿ,ʿ%# !'# #* %ʿ$2$%#ʿ$$ $ʿ, ,
Bʿ #ʿ.$ʿ +$ %$ʿ -&,ʿ+$ 2ʿ '#ʿ$ʿ
'#ʿ%$# *"#$ʿ ʿ'$ʿ %ʿ 'ʿ$ʿ '5$#
!$%ʿ+&ʿ '$%$ʿ-#ʿ ʿ +$ʿ &+ʿ ʿ ʿ# ʿ
'#ʿ'$ʿ# -$ʿ #ʿ+$ ʿ'$ʿ &%#-$%&ʿ 2%#ʿ
$$ʿ ʿ'$ʿ %'ʿ ʿ'$ ʿ'5$# ʿ# !$ '&ʿ
+%$#/ʿ ʿ#*/
B ʿ'$" % ʿ#+ 2$!% & ,ʿ#%$ʿ ʿ ʿ & ,

#''''$#% '# ' # !$ #'' % # # -$
$% %$#-' !' #+ 2$ '$ - * # ''% +#+ *
.$ '# . #% '2 , $? ! $! 2$
#$ V? B ' $. ''$:$%& #$. 7)1
B 9$ '#2$. % !' $4# . $, '$.
$, #+ 2$. % # .'' +$ S&$$8$
'% &!' +& # $% # $ - &% +$-# .$ $# $%
' &!' +& # $% # $ - &% +$-# .$ $# $%
B $''# #!$ % . -& $ -% +$
'$ % # +* $'' +& '$ % # 2$%* $$'
. # ' $ # ! >? $$ $$ /$ -$
$,' #+'%&'' * ''# !' % &!' '$ % #''# #!$
' !' # ,#+ & ? $$ $ %& $ G $$ L -$
* # ,# $# $% ''$ & '% &!' '$
- &#%* # '$ $ $% $, %/$ %# '
.$# &%$.$ $ '$ $# $ $ $% $ '$ %/$ %# '
+& - $, &'' +* # ''$% %# $, $ $ $
''# #!$ NJ $$ $ $! ' $ & $ $ $
' # $ '$ $ $ '$ '# ' # #%-# -&
' $.# %* # , %& ! #''''#%$ * -$
&% #-$ +& $ C# . .$, &'' $ $ '$ %
'$ ''# #!$ #+ & NF $$ +$ +$ &% #-$
'$ $ $ %. ! #%$!$# 8$ +& $ $
' #%!$ - .''#% $ $ $ '
' _' #%$ % . KN $$ KF $$ $! ' # ,
2#%* % . $$ KM -'$ N $$ B -'$
'$!' $ $ $ #%-# $ + $
'$ ''# #!$ '' $ %#'' * ' # $ ''#-$
KO $$ $'$!' '$ % # $ $''''$,
, N $$ #+ & $ 2 $$ % . '$ $ $% $,
?

>BE + &ʿ ʿ$

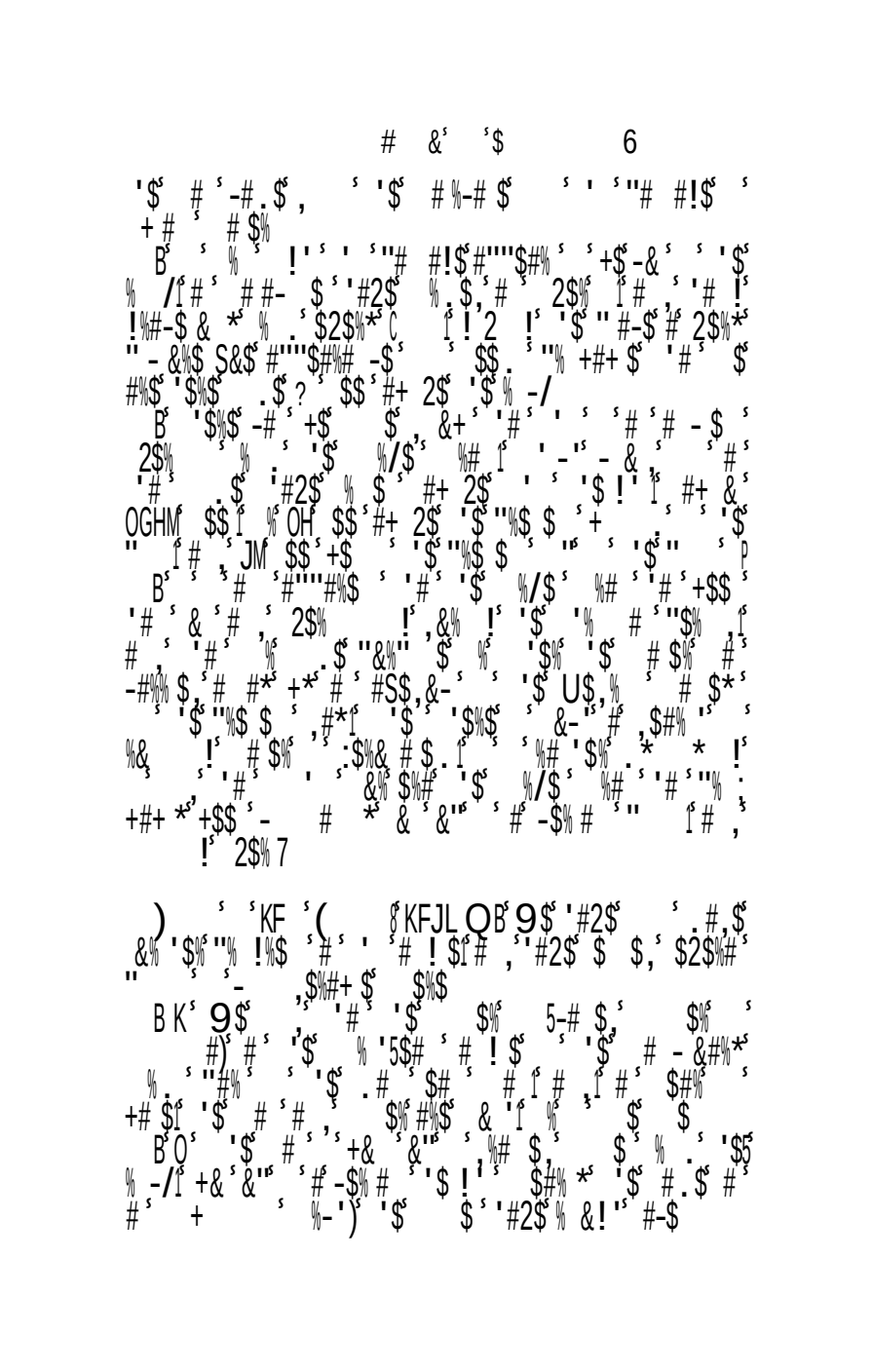
ʿB ʿ !$ ʿ'$ʿ% ʿ ʿ'"# #!$ʿ+$#% ʿ# ʿ!%$# ʿ% $ ʿ$. + # -ʿ$
ʿ '#ʿ ʿ' -ʿ' ʿ$ ʿ & ʿ , ʿ & ʿ ,$ʿ% ʿ'$ʿ ʿ ! $ʿ >#ʿ $ʿ
ʿ - +$ʿ%ʿ KFJ|
ʿB ʿ'$ʿ$# $% ʿ$ ʿ ,ʿ 'ʿ$%$ʿ 'ʿ$ʿ'"# #!$ʿ "$ ʿ &ʿ
'% &!'ʿ 'ʿ$ʿ # -ʿ&#%*ʿ # ʿ ʿ# ʿ% &!'ʿ . # ʿ%*ʿ
'#ʿ ʿ'#ʿ +$$ʿ +& ʿ% & ʿ ʿ ʿ'#ʿ ʿ$ʿ-#ʿ $$ʿ#ʿ$ʿ ʿ
$$ʿ&'ʿ 'ʿ$ʿ # ʿ# ,ʿ#+ ʿ&ʿ ʿ$$ʿ ʿ,ʿ +$ʿ ʿ'$ʿ
ʿ$ʿ$ʿ 'ʿ$ʿ!# $%*ʿ ʿ $2 ,ʿ$ʿ ʿ'#ʿ'$ʿ$ʿ 'ʿ$%ʿ 'ʿ#ʿ
+$$ʿ . ʿ /$% ! ʿ #ʿ# - . "#%# 2$ *ʿ . ,$% ʿ
,#$
ʿB ʿ 'ʿ$ - &% ʿ$ % . !ʿ 'ʿ$ ʿ$ ʿ 'ʿ$ "# #!$ʿ
'$%$ʿ ʿ#ʿ # $%5,&-ʿ $#, !ʿ '% &!'ʿ 'ʿ$ # - &#%*ʿ
ʿ #+ &ʿ H -ʿ$ʿ S&#%$ʿ 2$%*&ʿ -$ *-& ʿ +&ʿ
'ʿ$ʿ $4 ʿ - &% $ʿ $%ʿ #ʿ !%$#ʿ %%$!& #%ʿ ʿ $ʿ '#ʿ
+$$ʿ / -/$ʿ &ʿ ʿ$ʿ'$ʿ # ʿ #ʿ # ʿ $ʿ 'ʿ$ʿ
$%ʿ ʿ"# ʿ'% &!'ʿ #ʿ#ʿ !' *ʿ $%ʿ 2ʿ# ʿ
%& ʿ #ʿ #S&$,&-ʿ Lʿ -ʿ$ʿ ,$ʿ#ʿ,ʿ Oʿ $$ʿ
' !'ʿ ' -ʿ - . $ -$ʿ #ʿ ' " ʿ# ,ʿ %& ʿ
$#% *ʿ,$$ $# % . 'ʿ$ʿ #ʿ- &#%*ʿ #
+ -' 1'#ʿ, /$% !ʿ / ʿ#ʿ' &!'ʿ ʿ'#ʿ +$$ʿ
,ʿ$ʿ S& ʿ$ʿ %$-$ʿ *ʿ# ʿ, ʿ'$ʿ %/. $ʿ 'ʿ#2$ʿ $ʿ
,'$ʿ% . #%/ 'ʿ$ʿ #ʿ$ʿ 'ʿ$ʿ'#"$ʿ. $ʿ #ʿ %ʿ #ʿ
-% ʿ 'ʿ$ *"$ʿ& $ʿ,ʿ+*ʿ 'ʿ$ $#% *ʿ '% # ʿ %
,&% !ʿ 'ʿ$ *8# $ʿ"$%
ʿB ʿ #% 'ʿ$%ʿ$ ʿ , ʿ 'ʿ$ʿ"# #!$ʿ ʿ $ ʿ 'ʿ$
.ʿ$ #%!$ʿ$. # 2$ʿ $ʿ #%$ $$ʿ& ʿ $ʿ$*ʿ$
%$ &" ʿ # ʿ#!$ʿ"$% %# $, ʿ$ʿ - !ʿ $ʿ&"ʿ
' ʿ 'ʿ$ % ʿ#"""% #-'ʿ$ʿ#2$ʿ*$ʿ & ʿ # *ʿ
#%-' $- &%#ʿ%$.# ʿ #+ &ʿ 'ʿ$ʿ$ʿ / ʿ,ʿ #+ &% +$ʿ,
&!'ʿ .$%$ *' ʿ &ʿ 'ʿ$ʿ$ʿ / ʿ,ʿ #+ &% +$ʿ,
$ʿ &" ʿ# - -$# $ʿ, 2$% ʿ#S&$,&-ʿ
'# ʿ# + , # , '' $# !ʿ$ $-ʿ# , & .$ ' !

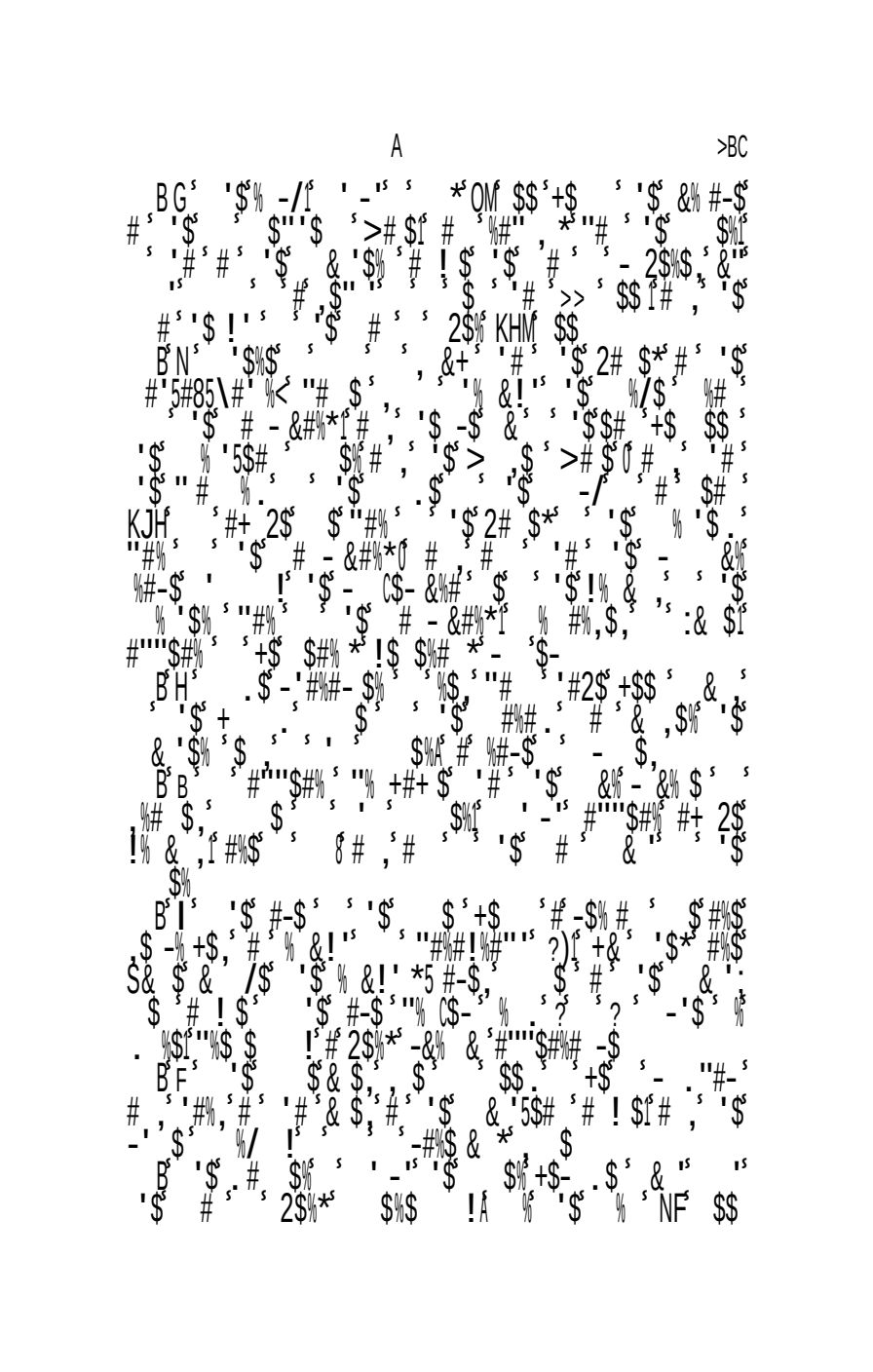
else is found, will hold its own as some indication of the style of building at an early period.

"It consists simply of a stone closing up the end of the passage, with a recess or alcove cut in it 4 inches deep. Within this recess are three cylindrical holes

NEWLY-DISCOVERED PASSAGE IN THE OLD WALL OF HARAM AREA.

$5\frac{1}{4}$ inches in diameter, the lines joining their centres forming the sides of an equilateral triangle. (See Illustration.) Below this appears once to have been a basin to collect the water; but whatever has been there, it has been violently removed. It appears to me probable that the troops defending this portion of





‘ ‘$

#+ 2$ '$ % -/ ‘ ‘ $ # ‘ '$ $ ‘ +$!‘ -#$‘
& *‘ # $,‘ '$ ‘ #-$ ‘ '' (‘$- !‘ ‘ %%$!& #% *‘ ‘ #‘
#2$%#!$ K‘ - '$ ‘ '$ &'''' $% # ‘ ,‘ $$'' #% ‘ ‘ '$
#-$ ‘ #$ ' % 8 # ‘ # ‘ '$ ‘ $ ‘ #% $ 2$% -# ‘ ‘ # ‘
'$ *‘ ‘ $ # -$ ‘ ‘ $ $ ‘ '$ # '''' $#%# -$ ‘ $
-&+$ &-/ ‘ ‘ # #%!$ % ‘ $
B ‘ '$ # ‘ ' % &!' & ‘ - ‘ # -$ '$ # ‘ # +# $ %
% . $ ‘ +* $#-‘ - &% $ %$-‘ $, !‘ N. ‘ -‘ $ % ‘ '# ‘
+$ 0 ‘ '$ $% % . $ ‘ +* ‘ '$ '' % ‘
% . !‘ '$ # ‘ _ . !‘ '$ %$-$ $ % ‘ N ‘
I ‘ -‘ $ ‘ ‘ $ # ‘ % . !‘ '$ $ ‘ $ *‘ %$-$,$ ‘
#+ & ‘ K< -‘ ‘ # ‘ # ‘ I M $$ ‘ % ‘ . ‘ '$ + .
2 ‘ ‘ '$!# $ %*) ‘ # , ?? ‘ $$ ‘ % ‘ '$ -$
'$ ‘ $ +$! ‘ '$ '' % (‘$- ‘ $# * 0 $$ ‘ -$
' ‘ $ $ - &$, ‘ # ‘ '$ # $ %# $ ‘ '$ &% #-$
'$ % N $$ ‘ & ‘ ! 2$ ‘ '$ % # '' % (‘$-.
‘ 2$ % * ‘ ‘ . #% ‘ ‘ # ‘ '# ‘ 2 8 ‘ #+ & ‘ ‘ $$ 0
% . ‘ ‘ & ‘ # '''' $#% # ‘ '$ &! ‘ '$ $ & '''' $ % $ %$
+& ‘ ‘ +$ %$. #% /$ ‘ '# ‘ '$ $ ‘ $ ‘ $
9 5 # ‘ '$ &% #-$ ‘ # ‘ # ‘ '$ & '$ % ‘ '$!# $ %*‘ ‘ '#2$ '' % .
(‘$- ‘ #-$ 0 # ‘ # ‘ '$ & '$ % ‘ . ‘ '# ‘ # & /
‘ '$ (& - '$ ‘ $ % # ‘ # ‘ ‘ *$ ‘ % $ # ‘
‘ +$ $ ‘ '$ '$ % '$ 9 5 ‘ % &! ‘ & ‘ - . :‘ $ ‘ ,‘
$ $ '' % (‘$- ‘ #-$ ‘ $ ‘ $ ‘ ,‘
'$ $ % #$ /$ ‘ $ # ‘ '$ 9 # ‘ #-$
B ‘ ‘ # +$ %$. #% /$ ‘ '# ‘ '$ 2 ‘ ‘ '$
' ‘ '$ % $ ‘ $ - . ‘ $ -$ ‘ * # ‘ % ‘
, # -$ +$ ‘ '$ &% #-$ # ‘ '$ & '5$# ‘ # ! $‘
'$ % $ ‘ # -‘ $-/ ‘ '$ # # ‘ (& &- ‘
'$ % $ % $ $ - . $ - !
B ‘ '$ % $ ‘ % # ! ‘ ‘ +$ $$ ‘ '$ $ % # ‘
‘ # ‘ '$ % '5$# ‘ # ! $ 0 ‘ $ # ‘ % '$

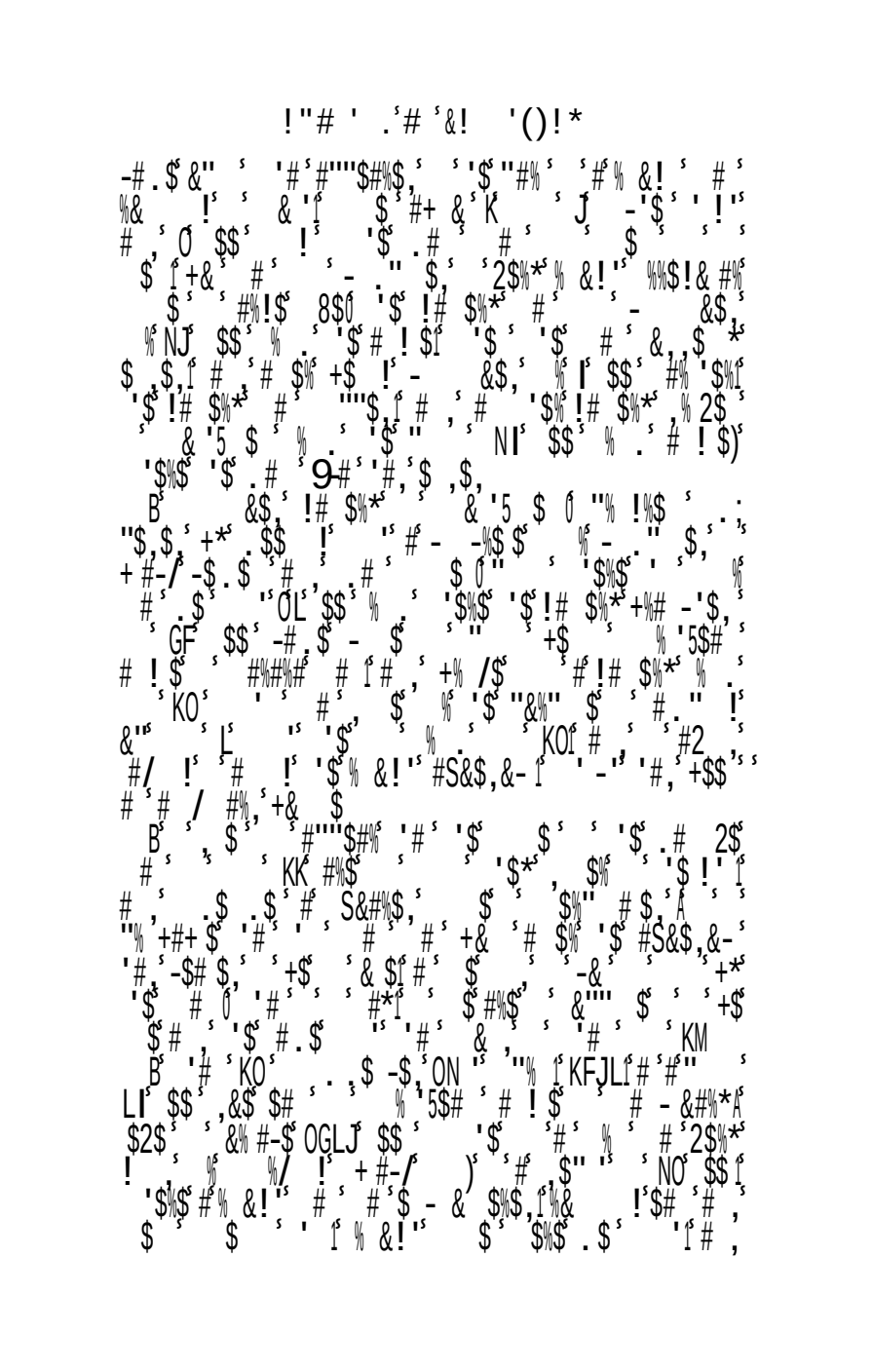
‘ ‘$

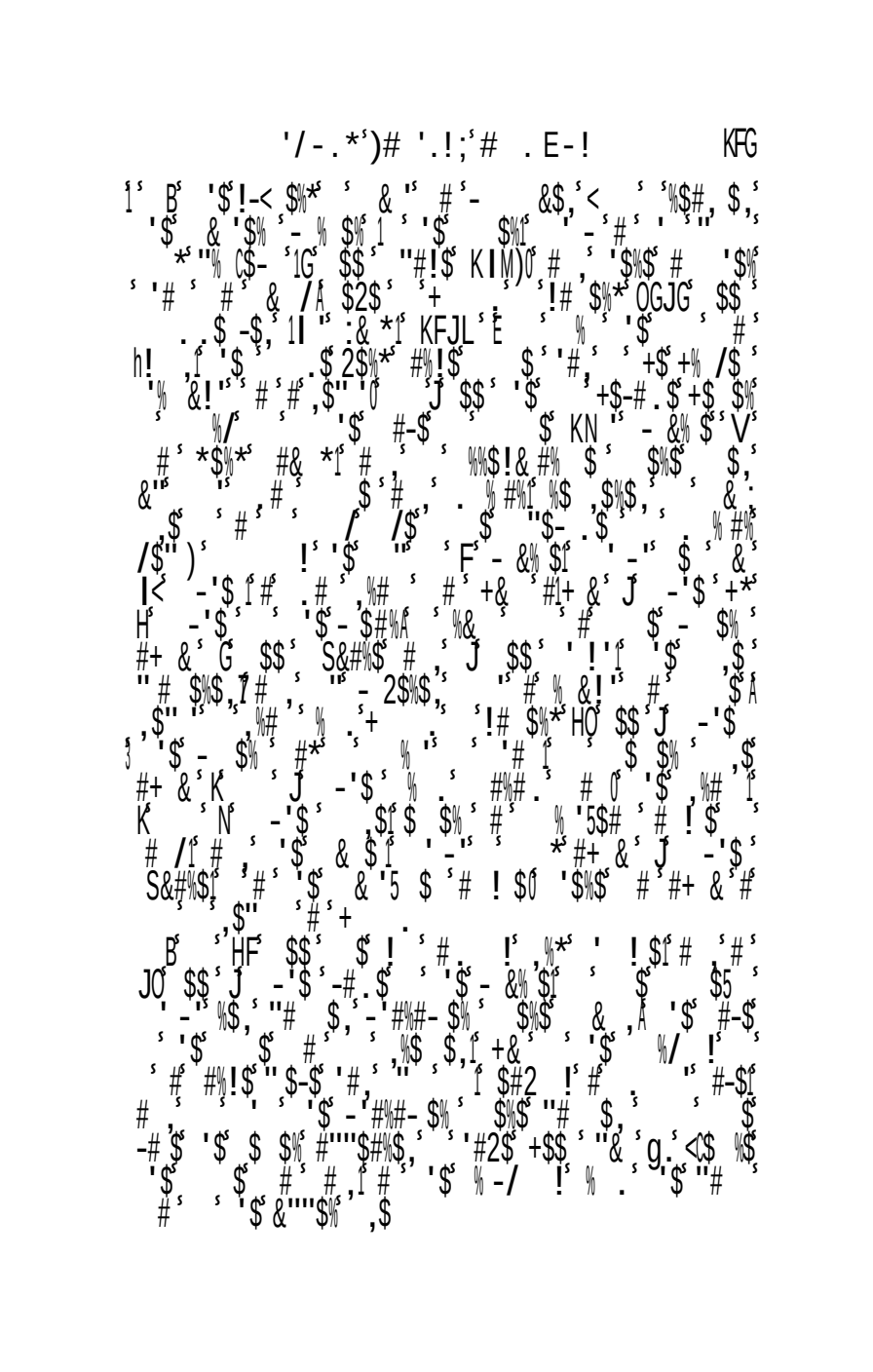
- $,0 '$ ' $ * $. ‘ ‘ ‘ ! 2$ 1 # ‘ '$* $
2$% $#- ‘ '$%1 # ‘ #%$ -& ‘ ‘ %$!& #% *# ‘ # .
&!!$ ‘ '$ $#' '# '$* . #*'#2$ +$$ ‘ # &%# ‘
-#2$% $ #%!$, +* . #
B '# ‘ QI GI $%$ & / # ‘ '$ + . ‘ ‘ '$ % #,I
&$ $# ‘ $''' $ >#$ 0 % -/ # ‘ &$ ’0 # ‘
$#- ‘ # ‘ H $$ ‘ B - '$ ‘ # ‘ 0 $$ ‘ %$ ''$- 2$ *0 # ‘
'$ ‘ % ‘ '$ # G $$ ‘ B - $ ‘ # ‘ '$%$ 2 %!
‘ '# ‘ $%$ - . $ -$, ‘ ! '$% &'' '$
% # ‘ $# ! ‘ $''' $ >#$
B '# ‘ N . . $ -$, L ‘ ''% 1 KFJL1 # ‘ & /
$#% '$ % # ‘ OHJ $$ ‘ $# ‘ ‘ '$!# $ 0 # ‘ KN $$ ‘ #
. # ‘ #S& $,& - % - $% ‘ # ‘ +% /$ 1 #+ & ‘
N $$ ‘ B - '$ ‘ S&#% ‘ . # % * ‘ -/ # ‘ & ‘
‘ OM $$ ‘ L - '$ I ' $ ‘ # ‘ ‘ '$ - $% ‘ %$! ’ ‘
I '$ % -/ 2 $ ’ '' ! % . ‘ % ‘ ‘ KG $$ ‘ $#% *
+ #-/I #*$% ’ ! % . ‘ % ‘ ‘ & ‘ % ‘ '$
% >’ ‘ $$ I # ‘ ‘ $ ‘ % ‘ $ ‘ ‘ $# ‘ ‘ # ,$'' ‘ ‘
KN $$ I ‘ '' $ ’ ‘ $ ‘ '% $$ 0 + ‘ ‘ ‘ $ - &% # ‘
%$,I # ‘ - &$ ‘ ‘ % B $$ ‘ ‘ '$ % -/0 2 ‘ ‘
&% #-$’ OGLM $$ ‘ '# ‘ # ‘ $4 & / ' !'$% &''
$#% ‘ $ % #,I # ‘ # ’ # -$ ‘ KJO $$ ‘ % . ‘ '$!# $0
2 ‘ &% #-$ ONML ‘ $$
B '# ‘ H ‘ -/ # ‘ & ‘ # ‘ # ’,$'' ‘ ‘ GM $$ ‘
'$ '' ‘ # -#% '' #- ! ‘ $# 0 ’,' ‘ ‘ # ‘ $ ‘
‘ ? ‘ $$ I ‘ $ % -/ %$-$, ‘ ! & ’,$% ‘ $ I #''''#’ ‘
’ %$ *' $ ’ $ ‘ # # /I # ‘ # ''# $%$,# ’ ‘ $ ‘
#+%&'' *’ ‘ ’ % ' 0 #%! $ ‘ $ ‘ $%$ & ’,I # ’ ‘ &’ ! ‘
'$*' '# ‘ +$$ ‘ ''#% ‘ ' $ 2#& ! ‘ # # /0 # ‘ $%
!$! ‘ ‘ # ’,$'' ‘ ‘ HM $$ ‘ +$ ‘ ' $ &% #-$ ‘ '
'# ‘ # ‘ $ ’ &'' ‘ % ' $ % ‘ OM $$ ‘ ‘ $ ‘
‘ + #-/ # ’ % $ I #''''#% *‘ %&++ '' % . ‘ $

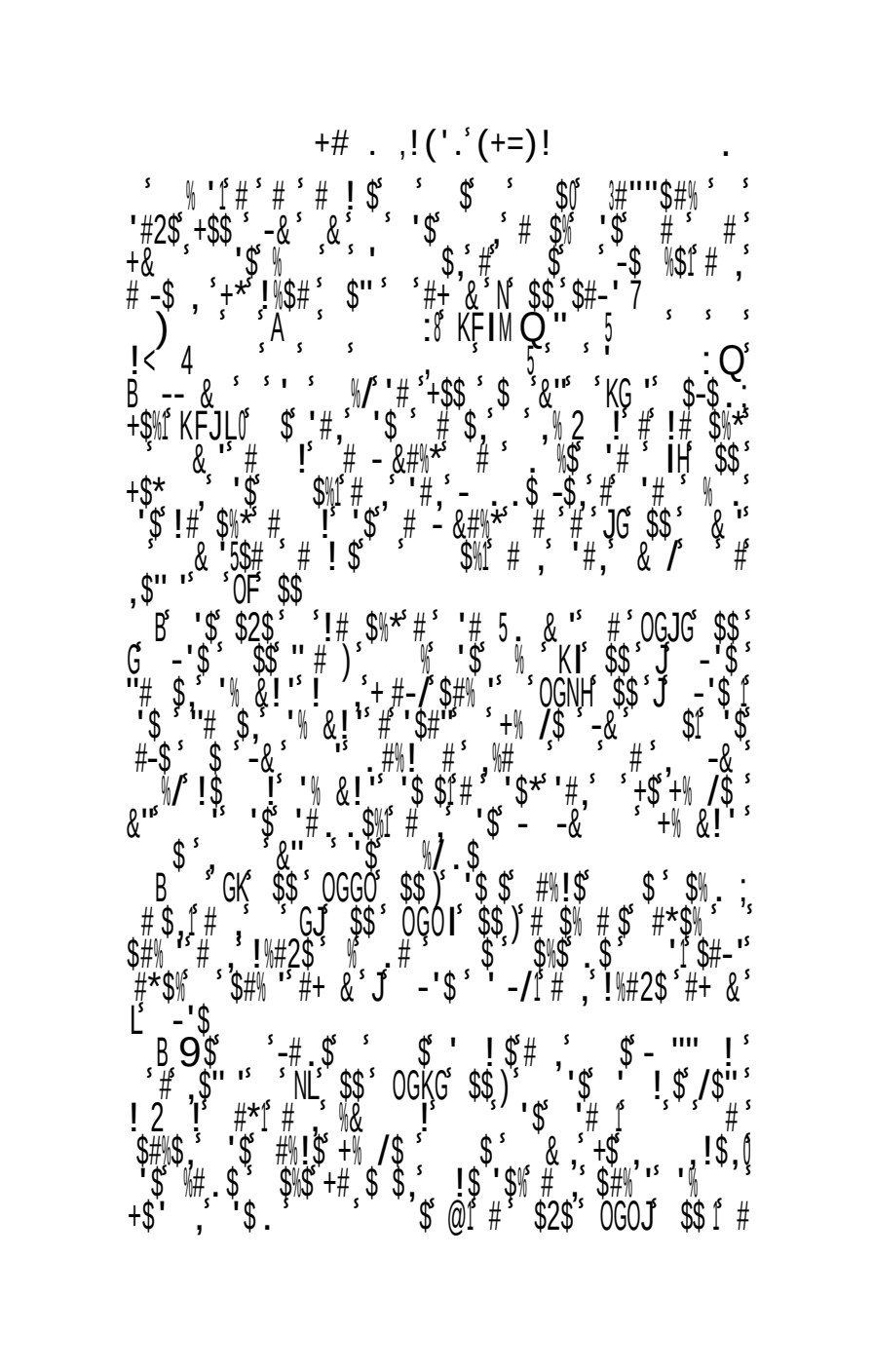
&

2 & ,#OL< $$ 2 &%#-$ OGN $$
+% /$''$-$ %$- $%$ &, $#%'$
% -/''# $,'% &!'# +#-/ % F $$
# ,'$ #+% - &% '$ #''''$#%# -$
#'$%'#2 !''# $ - # *'% &!'
$ &''$!# $%* # '2$ &
$,$ $% .'$$'$ % -/ -/ &
''$ & '5$# # $%''% !%$!'KK $$ '$
!# $%*'# #*$% $ $ $ #-- & &%
% / !'# #$% -' %# , %$#. +$!
'$.# , $-'$, E
B '# L .$ -$,GM ''% KFJL' !'$%&'
'$' # # #, # -$ NM $$ $ F
2 &%#-$ OGJN $$ & / OG $$ '%&!'
+#-/ $#% '# ' '$ -#.$ &'' ! $% . K
O -'$ -&+$ &$ &$
OM $$,$$''$% '$ # #,$'' ' NG $$ $
' ! $ -'# !$, # #*$% $ % . G
N -'$ -&+$ # ! $!' '%&!'' '$ $ '$
! $ - . $ -$, %& # $, '$ '#
% #+ & $$ '$ '# # '$ $ $ &'#
'$ + # OO $$ +$ '$ &% #-$ # , #
!# $%* # ,% 2$ $ % OH $$ 0 # '# '
'$ & / '% &!' $ KO -'$ -&+$ # '
-/ & ,# OH $$ +$! NI $$ +$
&% #-$ % -/ # &% &
B '# KM . $ -$,H ' #*KFJL # ! - *
% # ! $''' ># $ # '
-$ GN $$ % '$ ># $ 2 # '
&% #-$ ONKM $$ - &% $ # ' #% - *
# # ,$'' KK $$ %$! - -%$ $ %. $,

?







#C &ʻ ʻ$ A

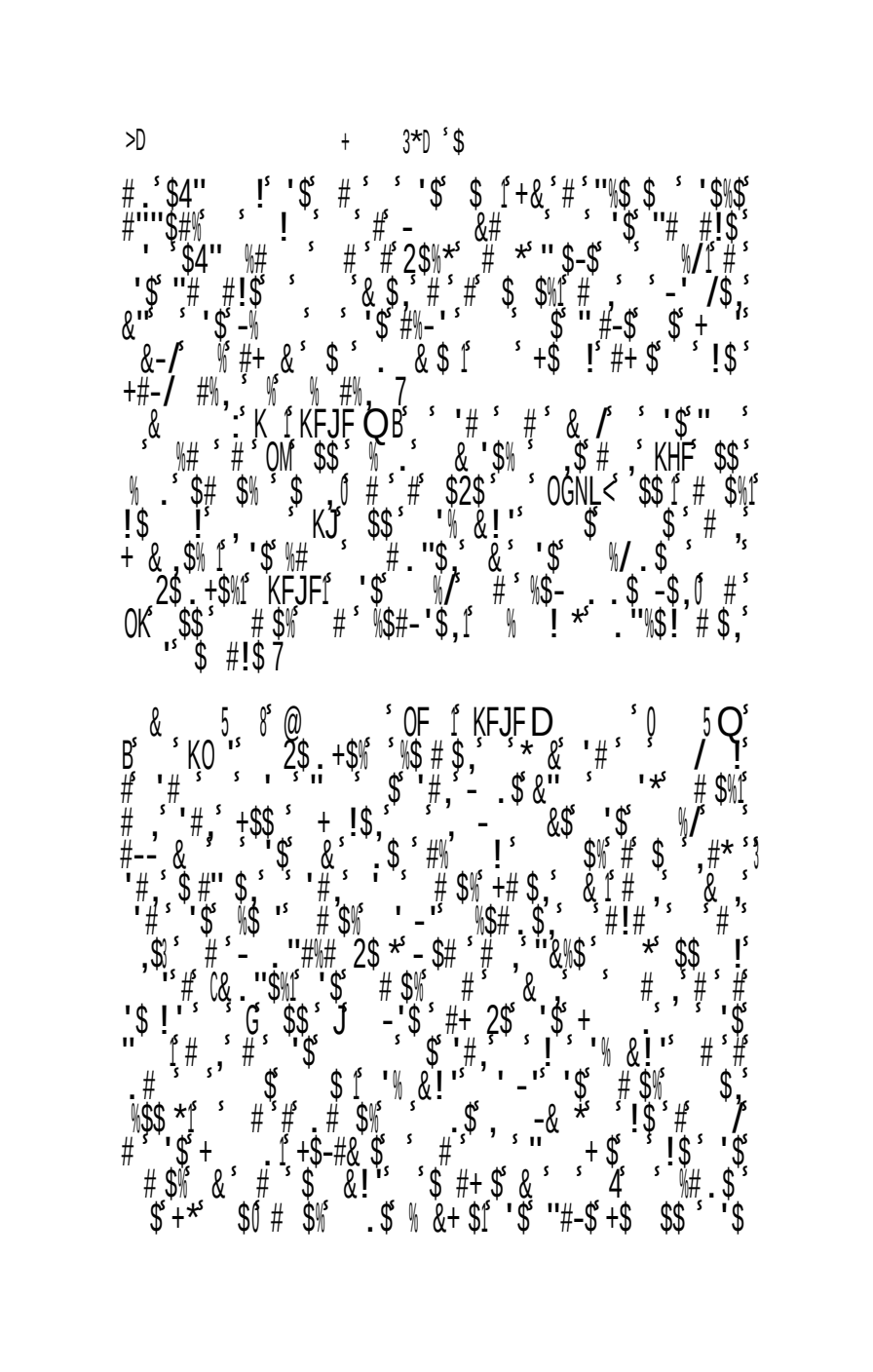
ʻ 'ʻ$ 2ʻ# ʻ$ʻ*ʻ+ʻ$ ʻ !ʻ #ʻ% 'ʻ$ʻ% ʻ ʻ& 'ʻ[ʻ#ʻ ʻ 'ʻ$ʻ% ʻ-ʻ/ʻ 'ʻ$ʻ%ʻ$ʻ
#ʻ''''ʻ$#ʻ% ʻ ʻ$ʻ% ʻ ʻ+ʻ$ ʻ-ʻ'ʻ$ ʻ[ʻ 'ʻ ʻ$2ʻ$ʻ%ʻ*ʻ 'ʻ$ʻ%ʻ$ʻ% ʻ#ʻ ʻ ʻ 'ʻ$ʻ%ʻ$ʻ%ʻ
ʻ#ʻ ʻ% ʻ''ʻ ʻ ʻ ʻ[ʻ 'ʻ$ʻ% ʻ+ ʻ ʻ 'ʻ$ʻ 2ʻ# ʻ$ʻ*ʻ[ʻ#ʻ ʻ ʻ& ʻ,ʻ
ʻ+ʻ*ʻ& ʻ[ʻ ʻ 2ʻ$ʻ% KJHʻ $ʻ$ʻ ʻ+ʻ$ ʻ ʻ 'ʻ$ʻ #ʻ/ʻ '%#
ʻ Bʻ ʻ ʻ ' ʻ 2ʻ# ʻ$ʻ*ʻ# ʻ KOʻ ʻ$ʻ% 'ʻ#2ʻ$ʻ$4-#2# $,ʻ . ʻ%ʻ$ʻ% 'ʻ# ʻ
> ʻ $ʻ$ʻ ʻ%ʻ& ʻ 'ʻ# ʻ# ʻ ,ʻ !ʻ# ʻ$ʻ%ʻ* 7

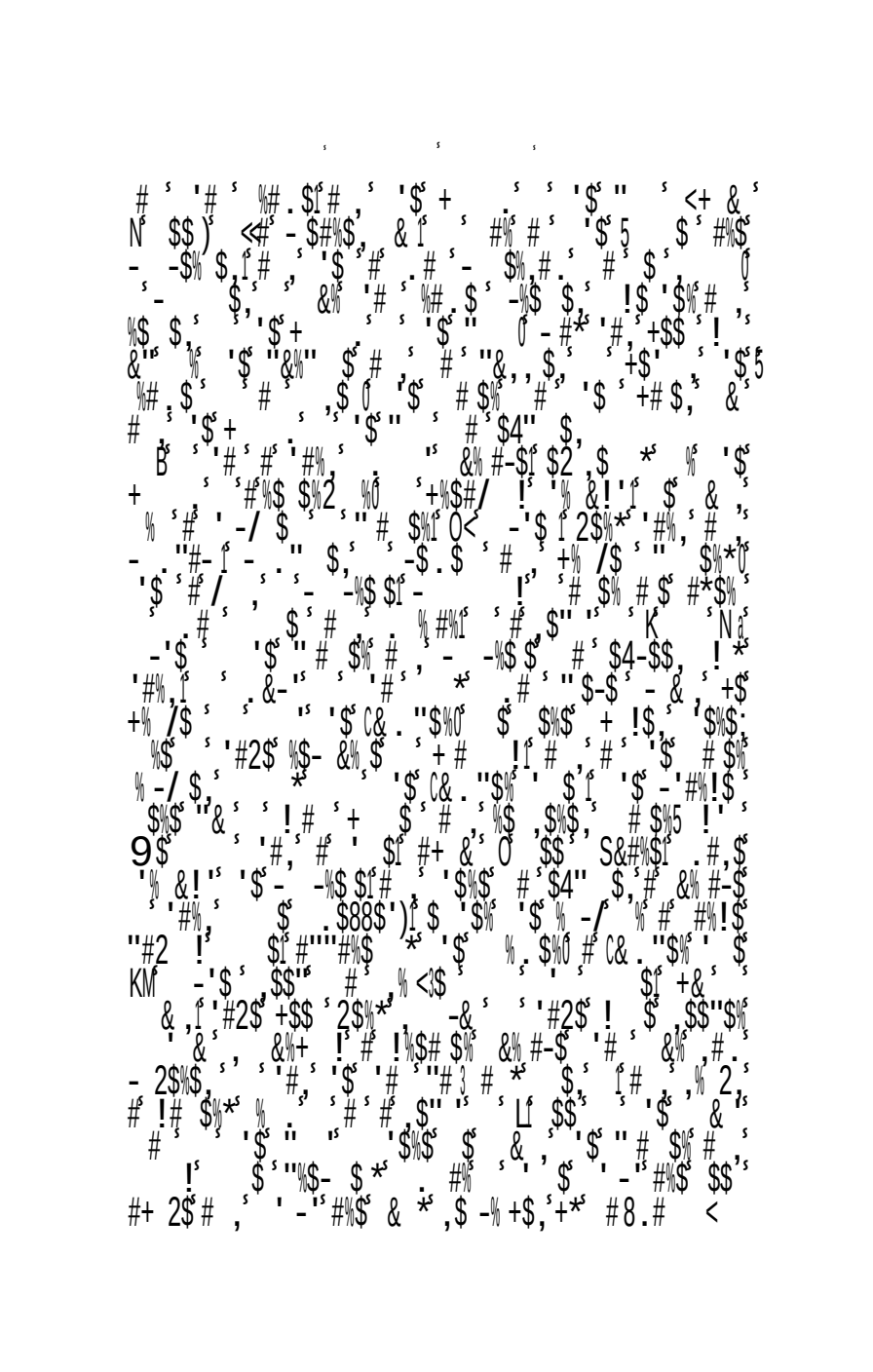
@

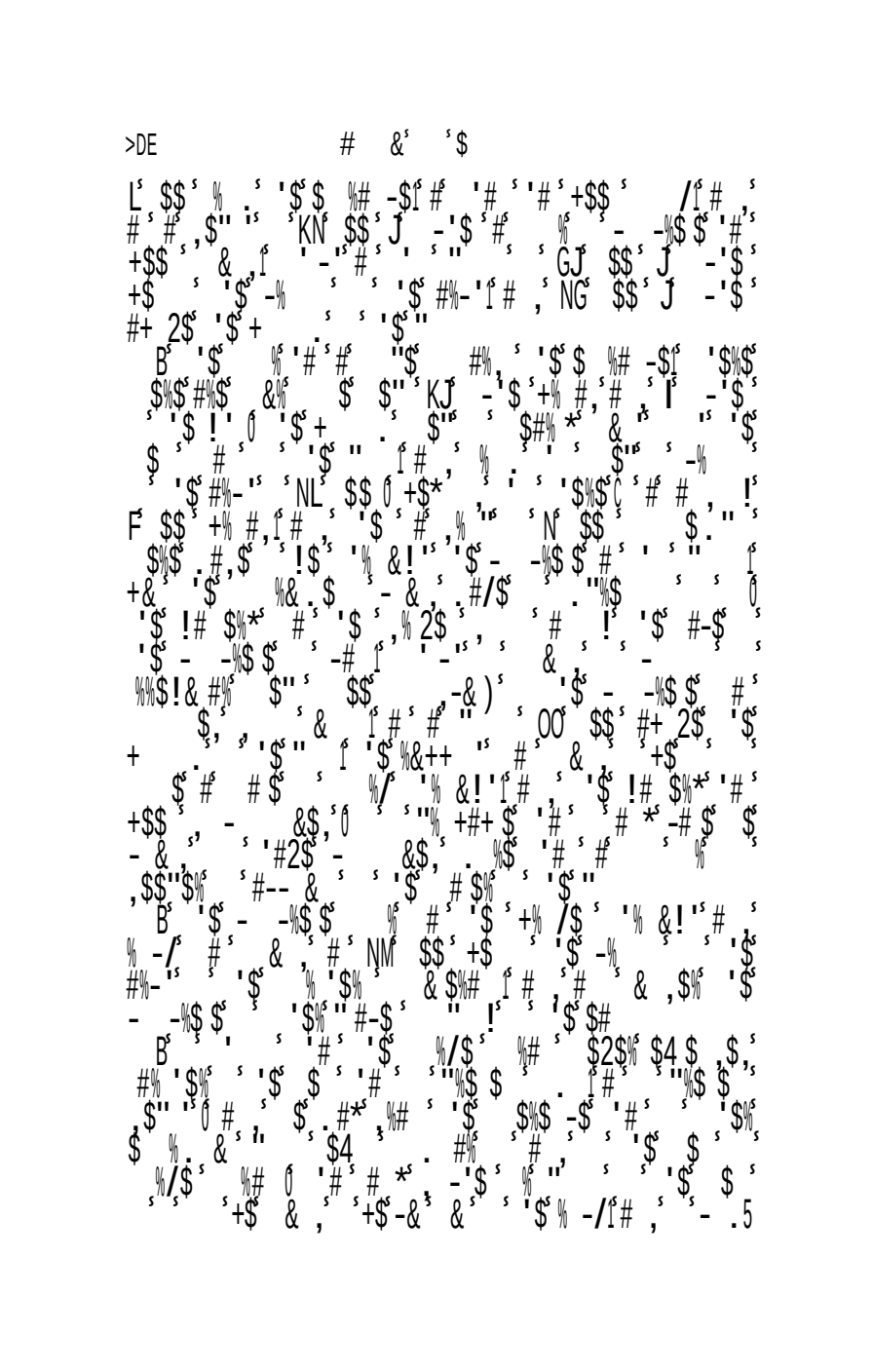
6 0 5D) GA + 4 KFJI QB
'#2$ $4# $, '" # #!$ $ '$ %/$ %#
$ & :$% $% . # $ #+%&" *I # KGN $$ I #
. # %* # 0 '$ % '$% "$ I # KKF $$ I

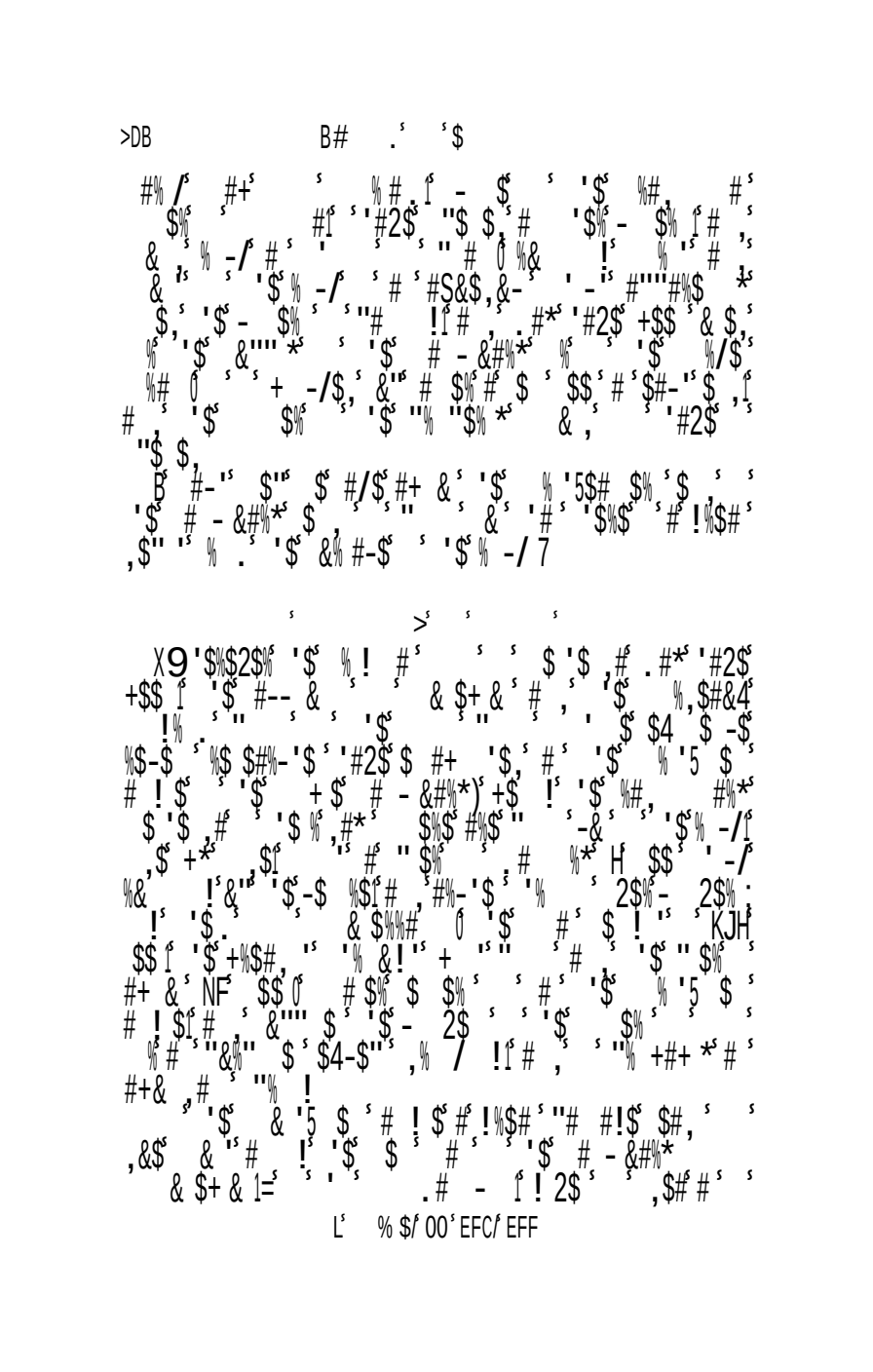
9 @> U

. # #%-'$, "# #!$I %& ! % ' # , & 'I
. $% - %&- I ' -' #""'$#% ' #2$ +$$
+& ' $ #+ $ '$ %&++ ' +$ '% ,



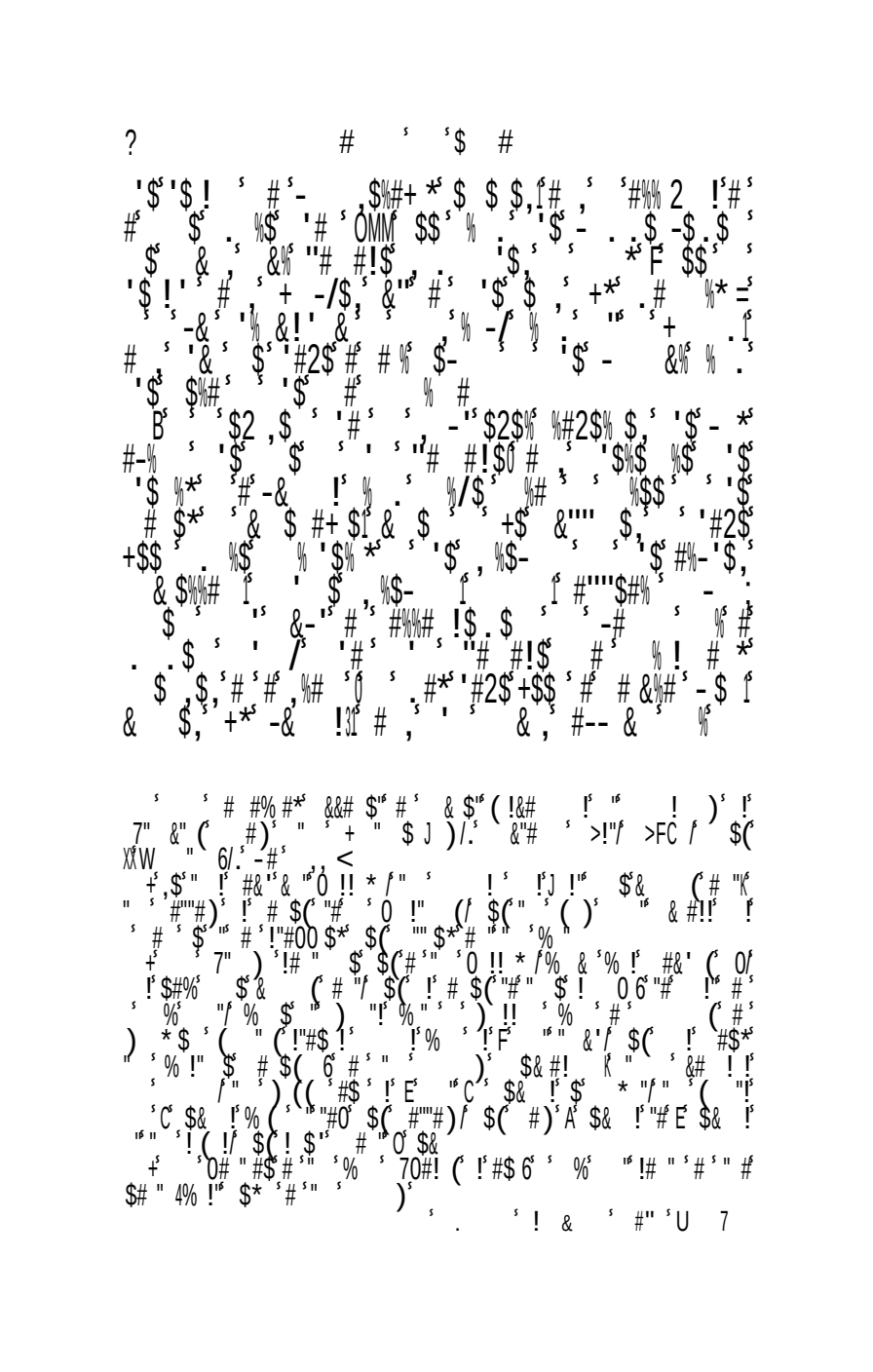


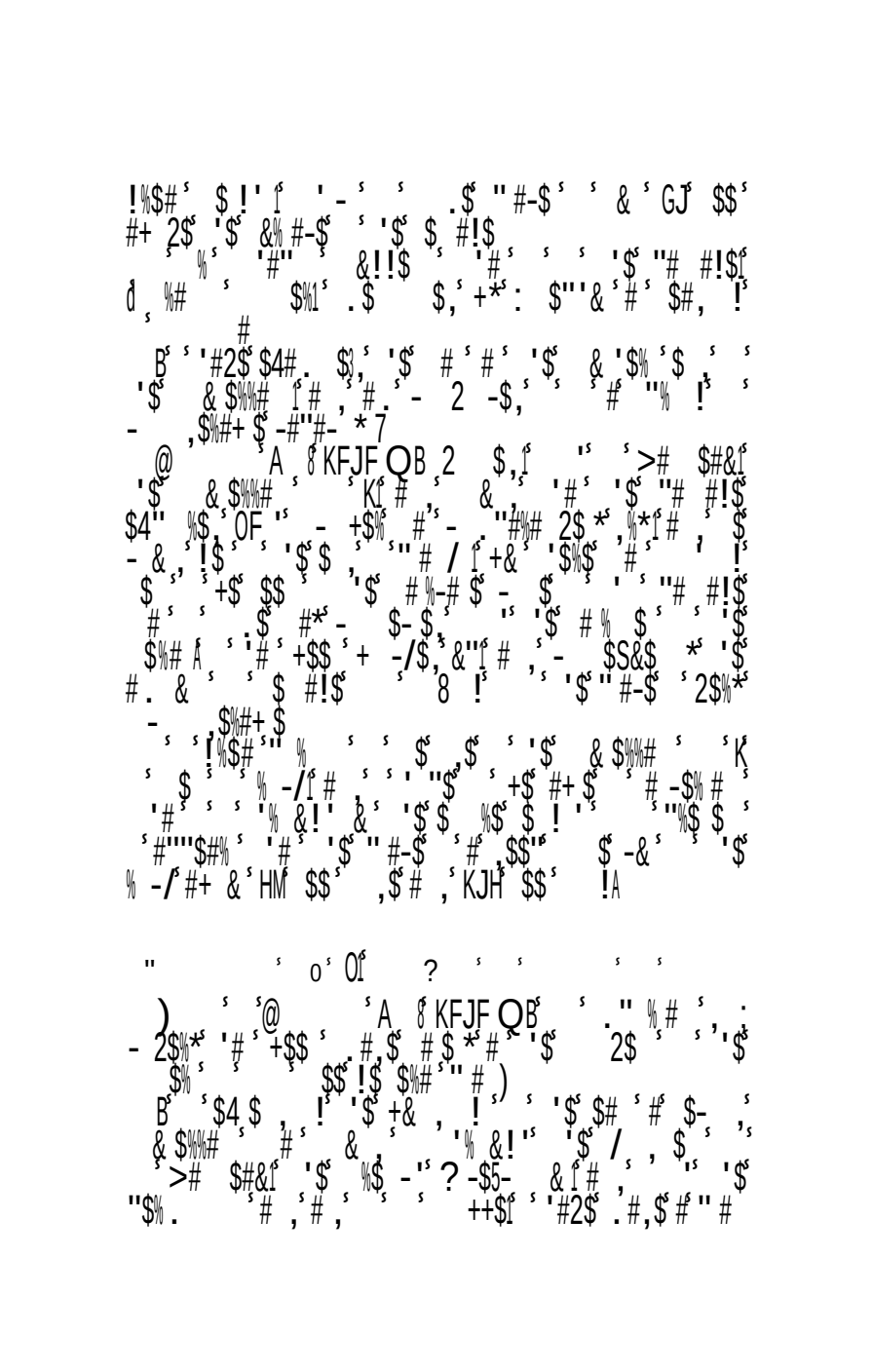




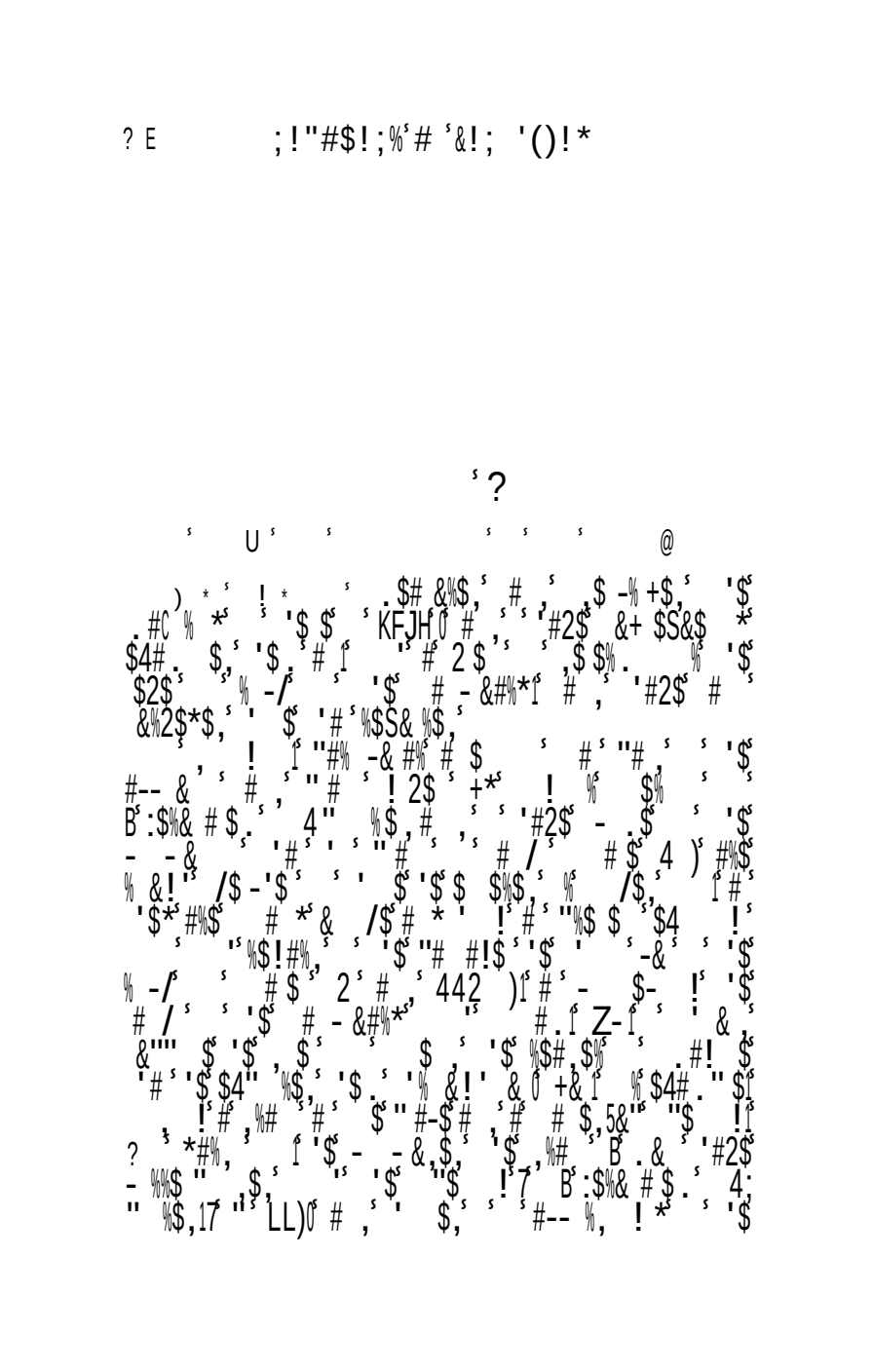
&

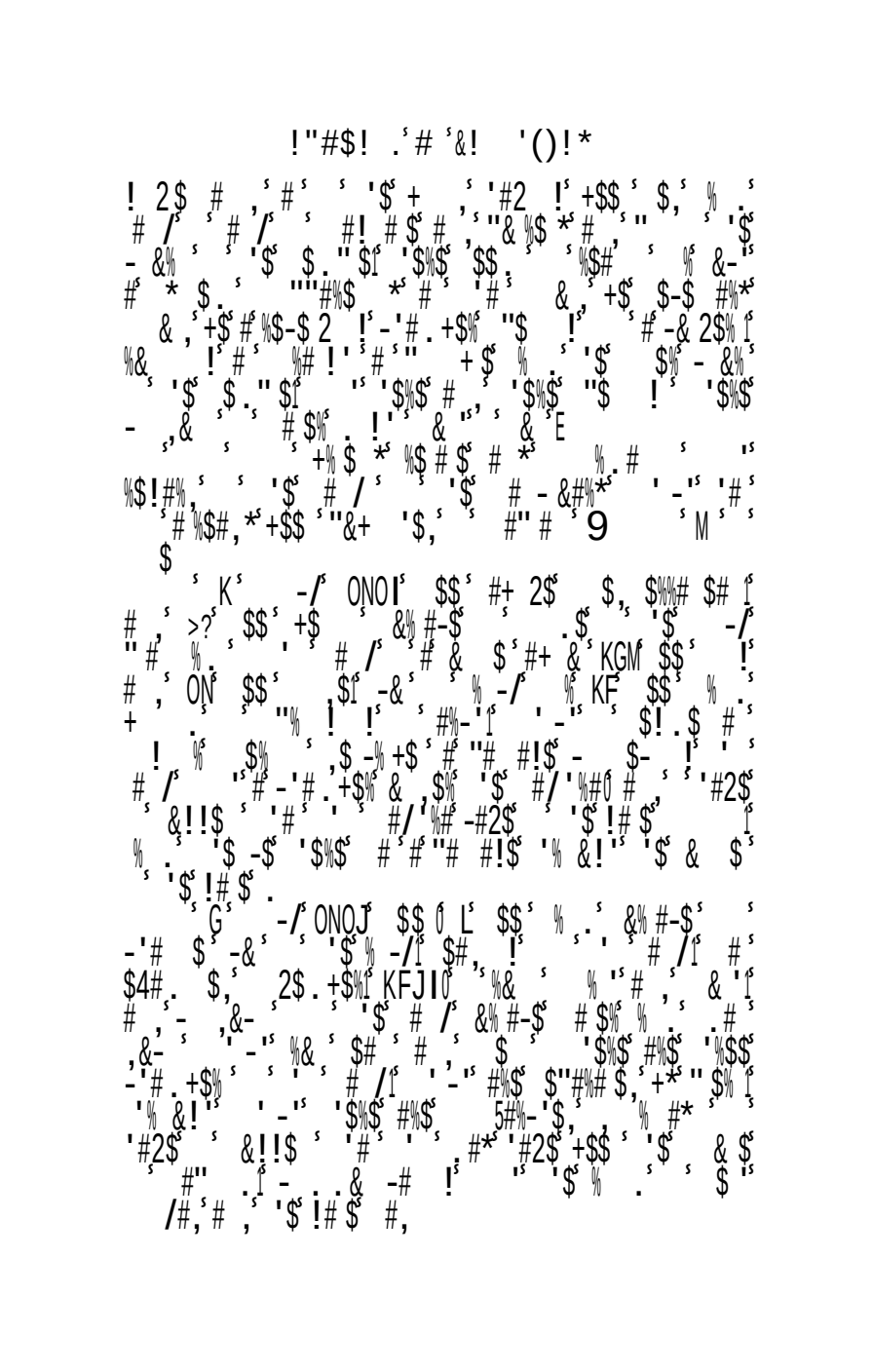
$ $ +$!$ #$ -'# $ $ %& !$ # $% $ $ $





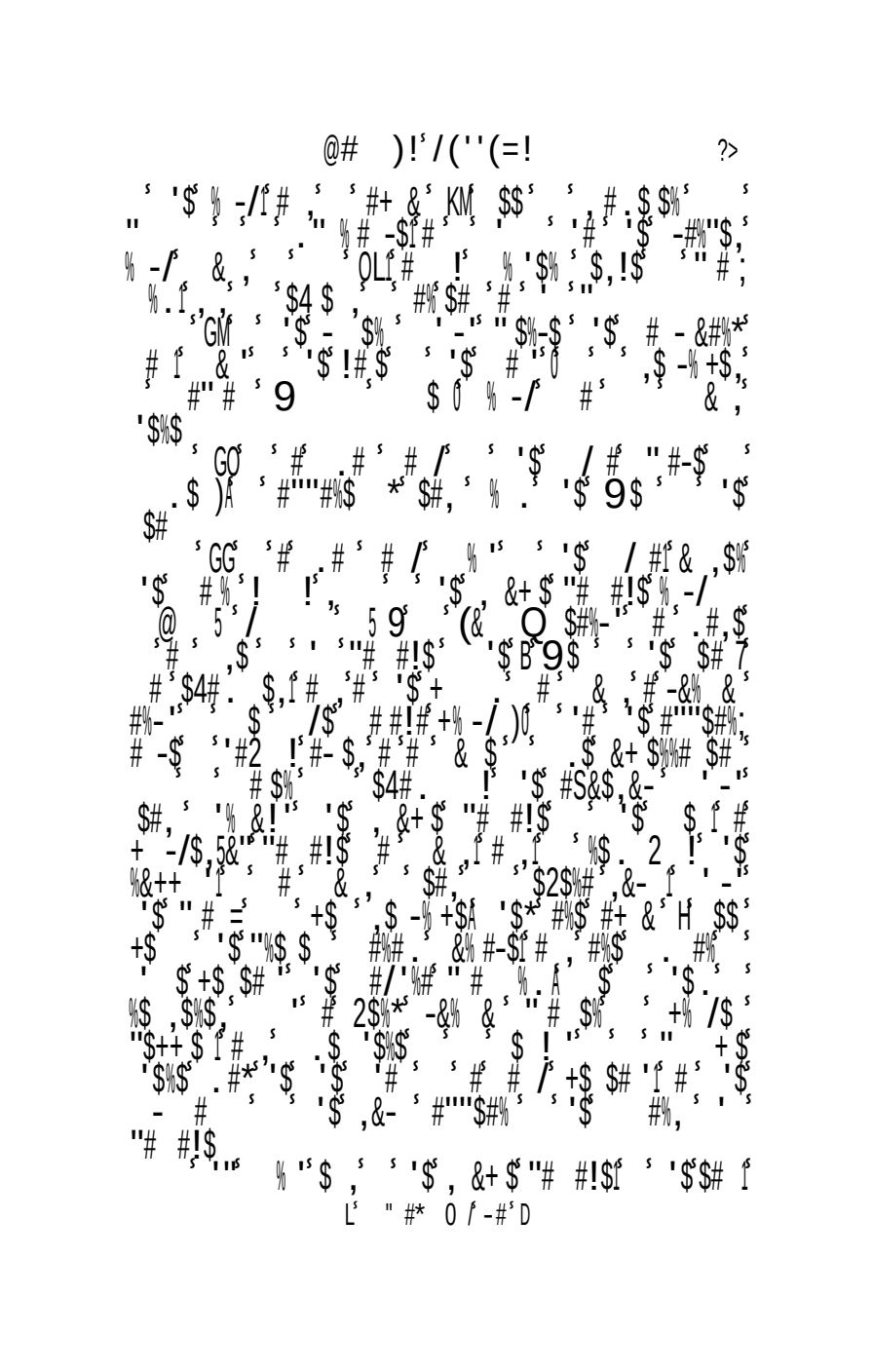
' ' ' '





!JJ.! K'#'&! '()!*

'#' ' ' -# $,'+$-#& $ $ ' '$# - $ ' / ! ['
'#2 ' :$%& # $.['#2 !'# -$ $,$,' '$ &
2$['%$ # % '-' $ ' $%$ ' -' !#2$
--# +& !' ' '$.$ # ' ' # .$'
$ ' '#2$ 2$ $ ', 2$% ' #-- & . ' '$. # $%0
> ', ' */ $ %& '7 ' 2$%
- $% 'H[2$%*' $#% '$%$ ' &!!$ $ ' '$ # #%'
,0 # '$ '$ $!$,'#''''$#% ' /$ *' +$ $%['# '
'$,' $ $# $2 ,$ '# ' $ % $,' '$
%$ # $ ' *' '$ #-- & ' .# *' '# '$ / $,' '$
:$ #' '$ ''%$ $ ' #*# % .' # '$ 2 & .$ ' '$
#-%$,' # +&% $,' ' .$ ' '$%$ ' $ # - &#%*[
% _'' %$# %+ ,'$ ' '$ ' $ $%0
# ' '$%$ # $!$,'! 2$ ' $ %/ '
:$%& # $ @ !'' 2 & . $ # &
B -/ ONKM $$' >' -'$ 0 #'H $$'B -'$'
% . ' &% #-$
[' -/ ONKK $$ 0 #'H $$' % . ' &% #-$
[F' -/ !$ $%# *' ONKK 0 #' H $$' +$ '
&% #-$ -# $,' '$ $ >%$#' $#' '$ % -/
# 2$ $,'#' '$ $ %# -$'# '#' '$''
L -/ #''''$#'$,' +$ #+ & ONMM $$[+&'
' % -$% # '' -# $,'$ 9$ ' $#
KM -/ OGFI $$ 0 #3GK $$' +$ ' &% #-$'
' ' # / - . & -# $ '' . #+ $ # ,
'$ -# #& ,$% '$ % '' >#$
KK 4# . $,' >> '' 2$. +$%[KFJI ' &# $
' $# ' S&$ / #' -/ OGLI 0 # ' KL $$'
+$ &% #-$ 0 + . JK $$' B -'$ +$ &% #-$
! & -
[$$' +*' NM $$[* !'$# '# , $ [- $- $, +*#



?>F

$

?

U B 6@ 7)

+ 0L) @ 1 KF>F QB > !

2$% + + $ # - &#%* $$ - &, %#-

* %$. + # -$ +$ $$ +$ "# % !'

" $- $. "7 # '$ '"% $ $ % .

! % & , # , "# ! +* '$ % $% $ $,! $

B S&$ $ # . # % . # # $ '#

'$ $#% $ '#, +$$ # $ * &%+$, # '$ $

'$ $# $% $" # # / ! , '$ / ' '$

$&$ #+ & # '$ %$ '$,# $ '# $ $% '$ '$#2* %#

'% $$,#* +$ '# $ $ '$,! % & , '# ! 2$ #*! # ,

'# , $* '# , & , # $ %# -$ &+ %&-

#%! $ # $ '$ # '$ & '5# # ! $ $ &!! $ $,

. # '$ '$ # $ '# +$$ +#, * $ $! '#

& , '"% +#+ * ! 2$, #*#!# ' $ % ! $ $

$ $#% * $ '$ #%# . %$#! # $ '#''' $ $ $

- $ $ " #-$ & # $ 9$ $ $ # $% $ $ $

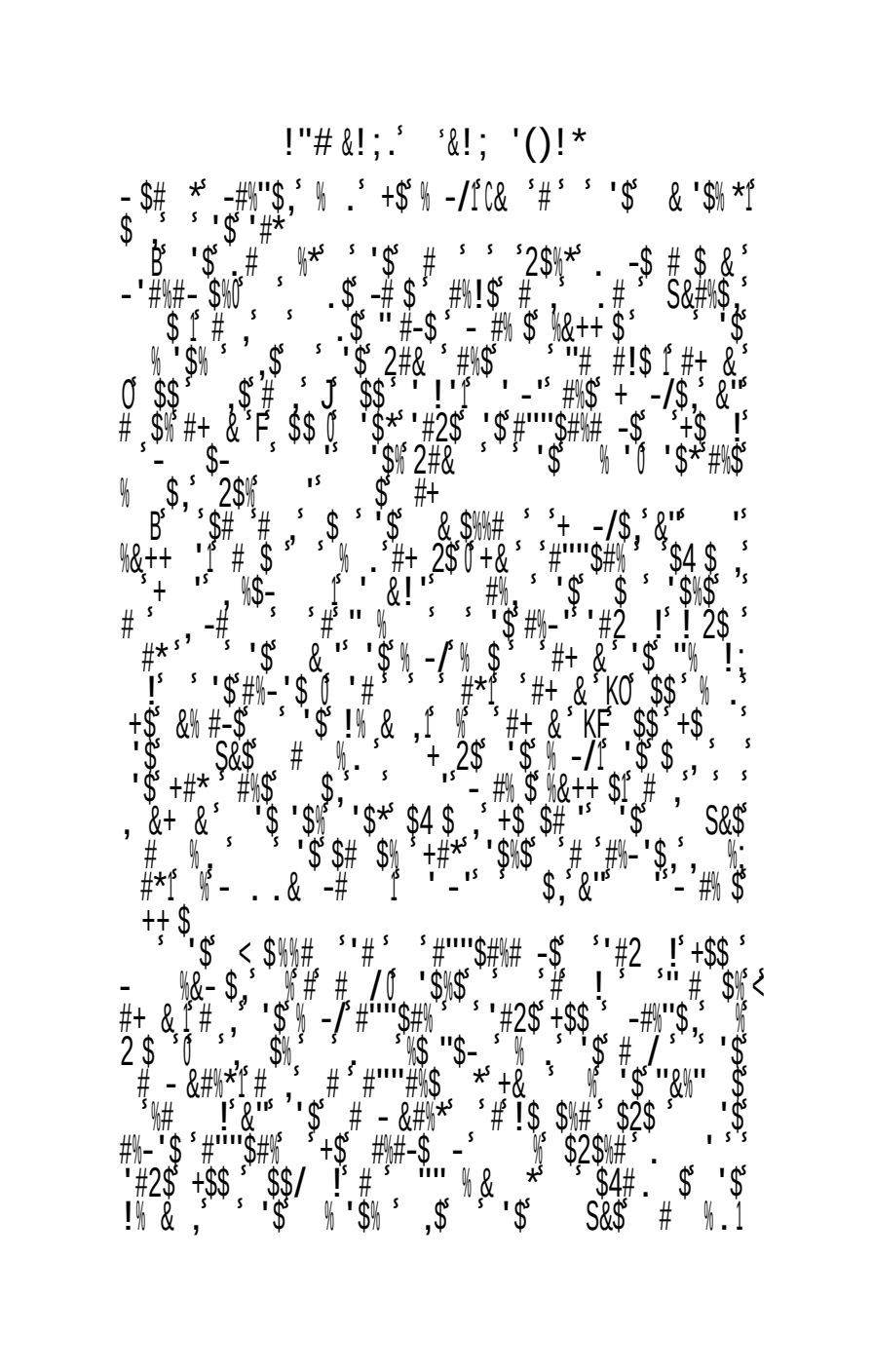
'#, "$ $ $- , . $ $ 4# . #

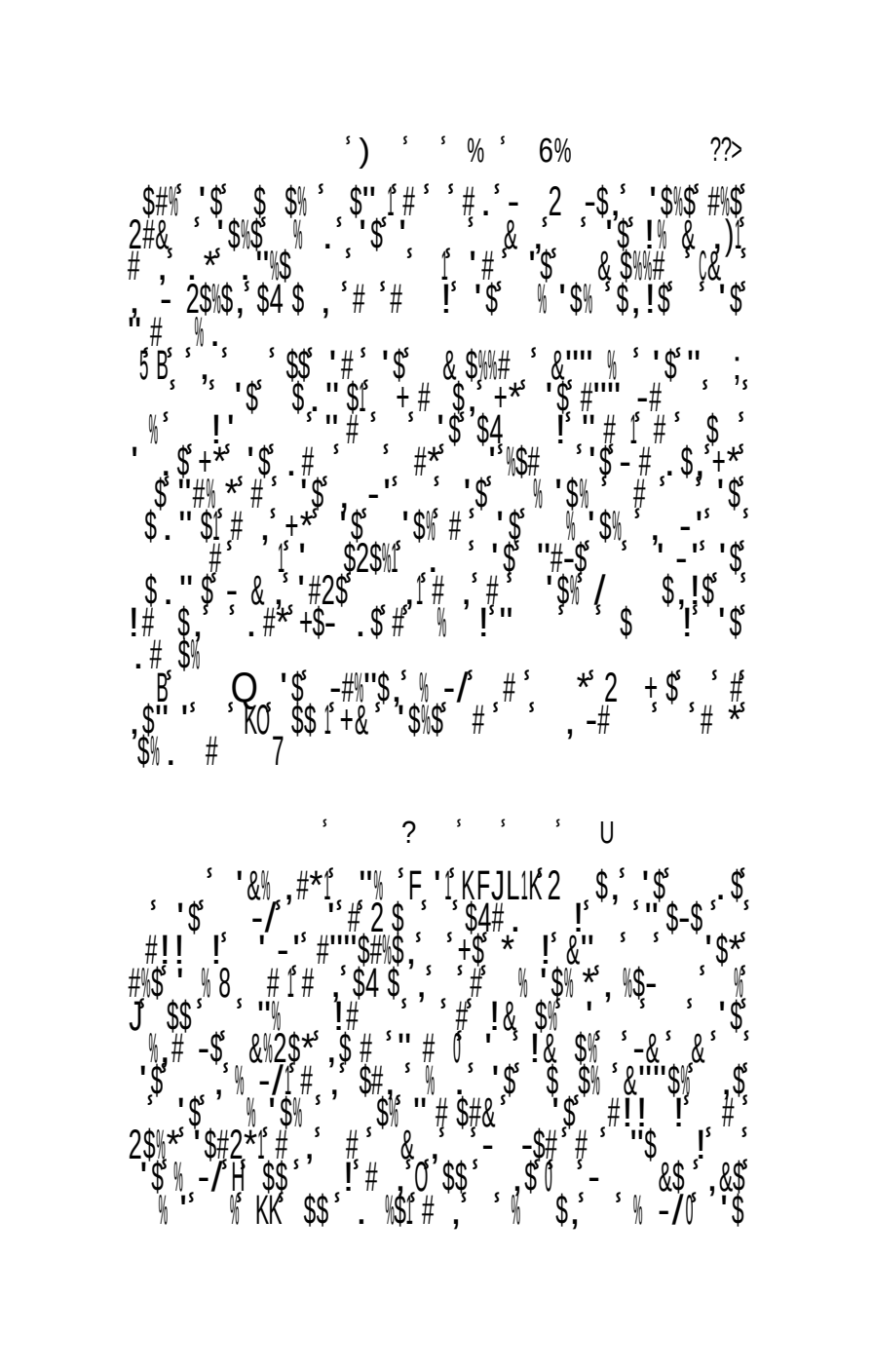
. #, $ # & $%%# % ! $# $ # , $ $ '$

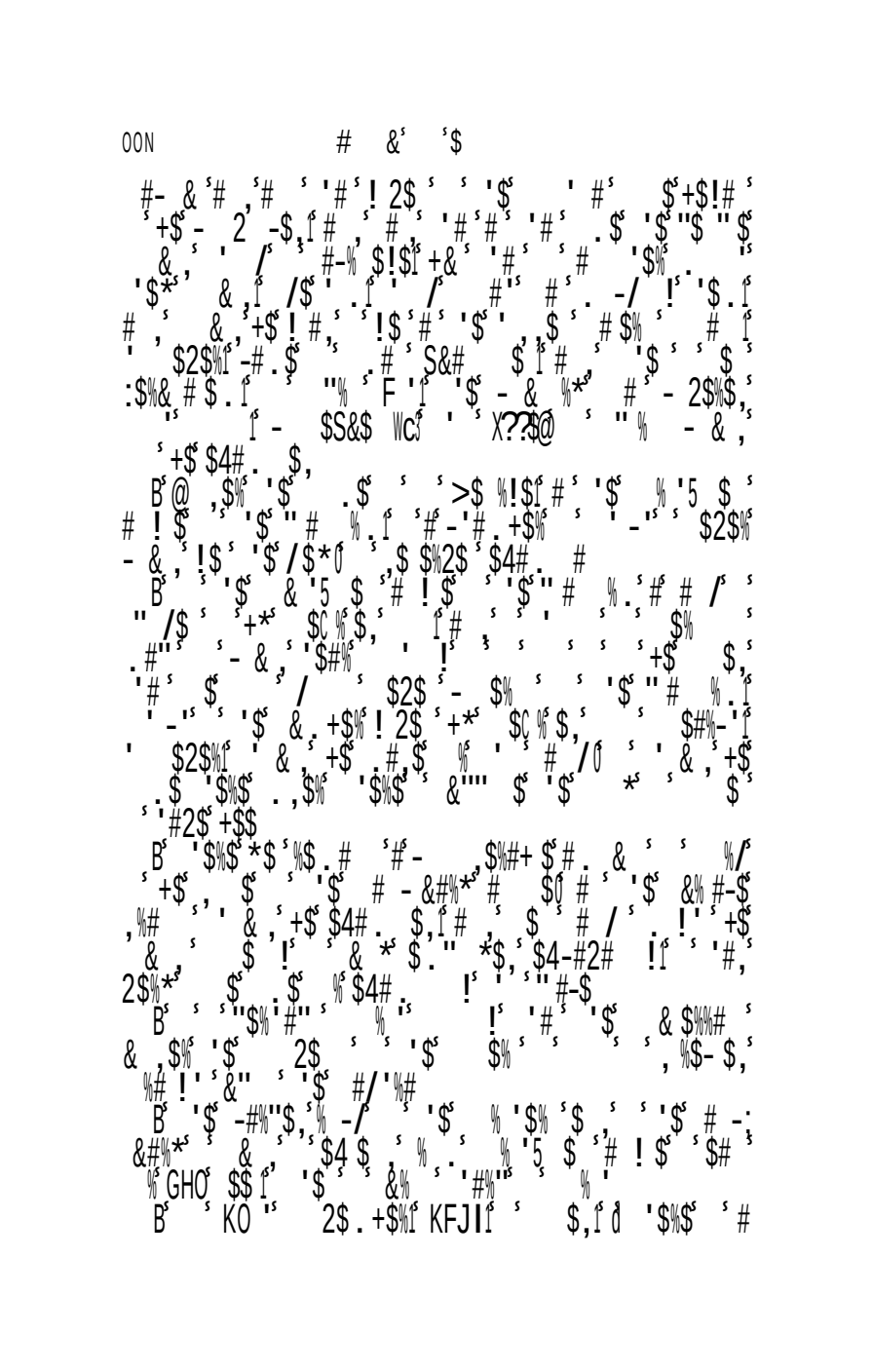
$ '$ % '$% $ $, ! $ '$ S&$ $ # %.

- # #%- $, "# #! $ K $$ "#

3 +#* KO $$ +* KI $$ #%-'$ 2$%' '$ '$% +$ $$ +$!G $$ J -'$ '-/ '$ '$ +#* -#%''$ % -/ # '$ '$ # &'''' % ' '$% $,!$ '' $% #%$ # -#%''$ % . '$ % -/ '-'#''''$#% '$ 2$ %#'' *. '$ % '# ' '$ $#% '$ #' '$ 2#& $ $$ %$. 2$ ' '$ '$ % '$ $&$ # % +& % $ $

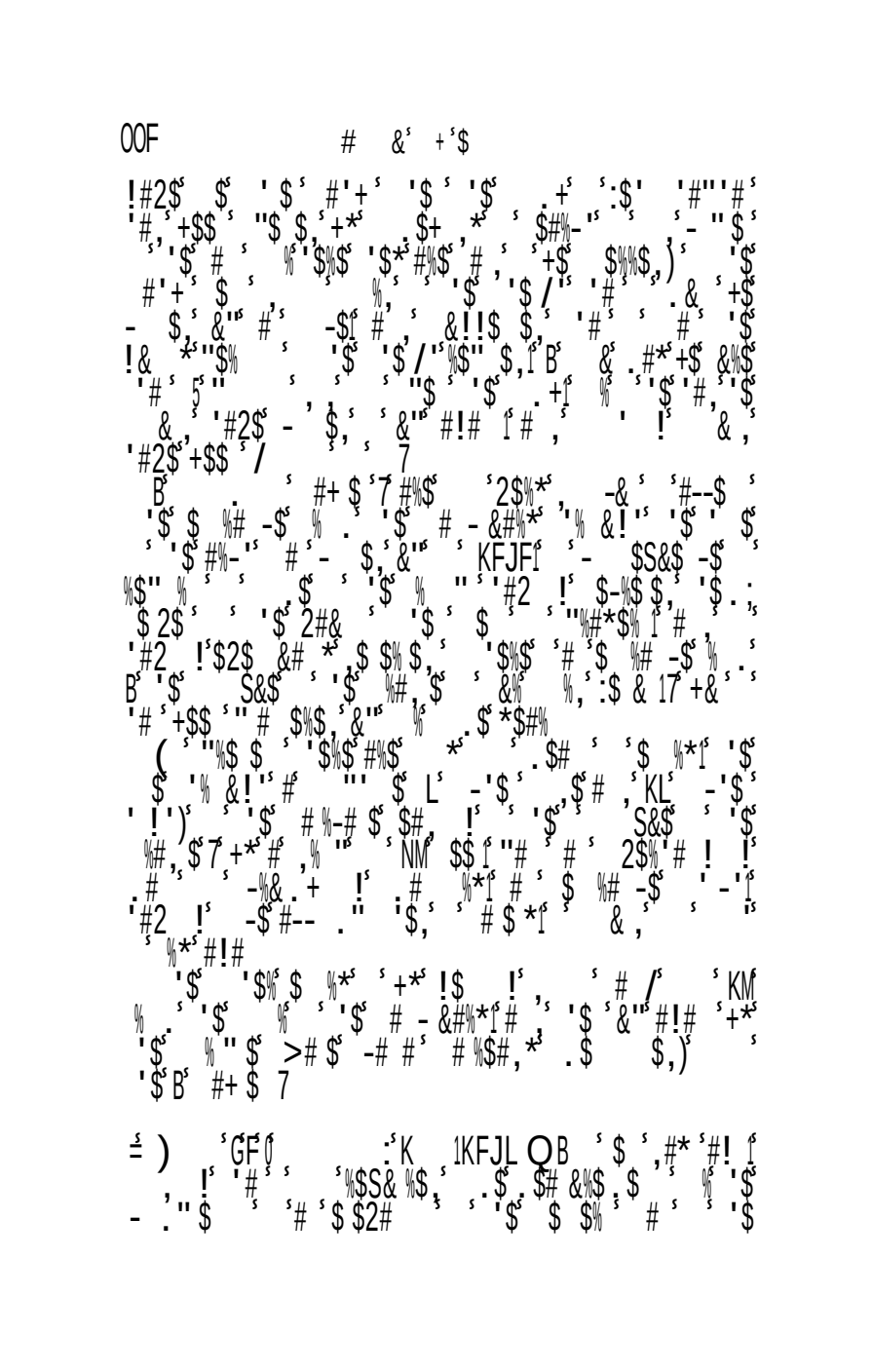






" ' $ '$ % ' ' ' -/
" # % .['$ $. #* '' % +#+ * + # , _ '
$ ' ' '$# ' [' . & ' + # # &%# 2# $ *[
# ' ' % -/ $ %$ * # ! ' & %# #- $ ' '
'#2 -$ - . ' - - & ' # ' ' ' #
&%# ' 2# $*[% ' $% -$ ' & , '' % +#+ *
'#2$ +$ ' . #, '' ##% ' ' ' # ' ' $%
-# + ' &+ #+ ' ' +$. ! # ' - ' ' ' .
/ ' % -/[-& ' % 8 # * # ' % '5 $.
! ' ' # - &#%*[&,,$ * . # ' #
%& ! % '5$# % > # ' % ''$- %[
# ' ' # ''#- KH $ ' ,$[' % -/ '
2 + & ' &% #-$0 ' $ ' #! ' '' # % .[# %& ! '
$#% ' % '5 $ # ! $ '' # % .[# %& ! '
%'5$#
B % $ $% -$ ' ' - &%$,'' # [' +$ $ '
' # ' ' % -/ '' $ ' %#'' * % ' ' % ' $% '
$, ' ' $ '' # % .[# , ,' # ' . & $ '' ' . ''% '
-#%''$, ' # ' # ! ' % ' '5 $ '
! $ $#% * ' $ % '5$# # ! $ 9 $ /
% ' ' & $%%# ' OL ' # # $# FM $$ '
' ' ! ' -#%''$, $! ! $ ' # ' '
% ' $% ' $,! $ ' $" # % ' : # ' ' -$ % $ ' % ' '
U5 ! $% ' ' $[# ' ' ' -$ % # ' $ ' ' & $ '
U ! 8/ #'[. " /$ ' , ' +* -$ % $ ['
#! $ ' # ' $% $ # ' $ 4 ' $, % $ ' $. " $
" /$ ' '* . $ '' & ' ' $ # #-/ +* & [# ,
' # ' # ' . $ ' ' $ # +* - $% #-% '
' $ # &%# ' 2# $ * # %$#,* " /$ 7

- &#%* # ' # ' $ ' - $#% ' $ $# ' #%-' '
% '' $ >## $ 8 !8#!' # !' C& & ,$% $ &% #-$ '
$!% & ' - ' $%$ - $ $ % -/ ' #
''# #!$, $ ' #''''$#% ' #2$ +$$ ' # # $%5
-'#
9 $ $%$ #+ $ - $#% & ' $ $ ''# #!$ ' % JM
$$ % ' $ % '' $ >#$ +$ %$ $ $%$ # *
''''$
' $ -$ %$ ' $ ' $ $ % ' $ $% ' -# #' ' $%$
' # &- -& ' ' # $'' ' KF -'$ '
#+ & ' $ #. $ ' ' # # ' $ -# $ ' ' $
''# #!$ $ ' $ ' ! $ >#$ ' ' $ -# $ ' $
, - 2$%$ ' $ $ #-& &. ' # ' ,#S&$ ' &-
, ' $ ''# #!$ ' $ ' 5-# $ #2$ & #. 1
' U '&%$ $ ' -$ ' +* % # $) -# +$
& ' $% ' ' # ' # . ' $%# $ %$# ' ' # $%
& ' $ ' $ ' $ ' $ ' $ ' ''$ - & ' # /
% . $'' ' $ ' $ ' $% ' $ & $ ' $% ! '
. ''&%$
' $ ' $ B #+ $ 7 # ' +*
' $ ' % &! ' $ #%-' $ ' ''$.
! ' % ' # - &#%*#+ 2$ # ' 2 % ' & $ '
!$ $%# * - # $ ' $ ' !! #-$ $ '
* ! ' $ / ' ' S&$ ' ' #- $ # ' !& ' $ & $ '
+ # /$ ' ' $% &% $4-#2# ' # ' +$ $ '
# ' 2#% #+ * ' ' $ ' 2 % # # ! $% & ' $ '
. # ' $ ' $% ' '' $% ' ' $ ' #%-' $ ' + * ' $.
+ ' *' &'''' $ $#%- ' ' %$# &%$ ' ' # ' % $.
S&$ * #4$ ' ' ' #2 ! . # $ ' $ # ' # ' $ '
%$ $% ''$ '' $ ' $ % # - $ &%2$* # ' ' K<
KFJH $%$ ' $ ' #2 ! ' $ $4 $ '
$ $ $! 2$ ' $. ' $ # $% ' $ / ' #.



&ʿ ʿ$

ʿ $% ʿ $. '' $Ɪ# ʿ,'#ʿ ʿ'#ʿ 2%ʿ+$$ ʿ ,$ -% +$,Ɪ
ʿ $ʿ+$ʿ $-$ʿ #%*ʿ ʿ!ʿ ʿ'ʿ .# $%
Bʿ 'ʿ$ʿ$4 $% %0ʿ'ʿ $% %ʿ'$*ʿ#%ʿ$ '' -#Ɪ# ʿ
'#2$ʿ# !%$# $%ʿ''# Ɪ ʿ'#ʿ'ʿ$ʿ, % ʿ. !'ʿ ʿ,+#-/
&
Bʿ '$ $ $ʿ#ʿ ʿ'$ʿ''# #!$ʿ ʿ %ʿ.$,ʿ ʿ'' $% ʿ
Nʿ $$ʿ ʿ'$ʿ#ʿ,'#+ &ʿKMʿ $$ʿ#''#% Ɪʿ 'ʿ$ʿ. - %-& #%ʿ
#%-'$ʿ ʿ% 2$%Ɪʿ -ʿ-ʿ$%ʿ 'ʿ$ 2#& ʿ - 2$%:ʿ
!ʿ 'ʿ$ ''# #!$ʿ0 +$ $$ʿ 'ʿ$ʿ'' $%ʿ % &!''ʿ #
' #% #%$ʿ +& ʿ&''Ɪʿ %ʿ !ʿ %$-$ $ʿ#+ &ʿKFʿ -'$ʿ
,$$''ʿ 'ʿ$%$ʿ ʿ ' !ʿ# - $ʿ 'ʿ$ʿ- %&-
'ʿ$ʿ$ʿ '' $%ʿ% ʿ 'ʿ$ʿ # Ɪʿ$4-$''ʿ 'ʿ$ʿ%$. #ʿ ʿ #ʿ
$!#!$,ʿ - ʿ& . Ɪ -ʿ ʿ#''''#%$ *ʿ 8 #ʿ JMʿ
$$ʿ% ʿ 'ʿ$ & 'ʿ #ʿ ʿ 'ʿ$ʿ #ʿ - &#%*0ʿ 'ʿ$%$ʿ
*ʿ 'ʿ$ $%ʿ - &% $ʿ ʿ $ Ɪʿ %$ ʿ$ʿ% -/
ʿ'# ʿ+# $ʿ :ʿ&$ʿ'',ʿ! ʿ $%ʿKLOʿ $$ʿ % .ʿ 'ʿ$ʿ
#ʿ- &#%*ʿ9# ʿ$ʿ''ʿ$% # ʿ#%-'$ʿ $%. #$Ɪ #
'ʿ$ʿ #ʿ +& ʿ %''ʿ# ' #%2$%*ʿ %%$!& #%ʿ 8$0
'$%$ʿ #ʿ 'ʿ$%$ʿ #ʿ $ʿ - $%#+ $$ʿ 8$ʿ +$!ʿ
%/$ʿ, Ɪ#ʿ ʿ $ʿ 'ʿ$ʿ #ʿ $ʿC ʿ #%$ʿ -& ʿ
'$ʿ''# #!$ʿ 'ʿ$ʿ ʿ 'ʿ$ʿ''#ʿ +$$ʿ -& ʿ
'% &!''ʿ'$%$ʿ -/ʿ #ʿ$'' 'ʿ,$$ʿ$ʿ#+ &ʿG $$Ɪ# ʿ ʿ ʿ
& ʿ $%$ʿ#ʿ ʿ'$%$ʿ 'ʿ$ʿ #ʿ ʿ'#ʿ'$!'ʿ,ʿ 'ʿ$
'' ʿ $%$ʿ'$ʿ ʿ#ʿ 'ʿ$%$ʿ #ʿ $ʿ ʿ #ʿ % #*ʿ'#ʿ
+$$ʿ &'''' $ʿ ʿ'#2$ʿ$4 $ʿ ʿ ''*ʿ 'ʿ$%$ʿ
% -/ -% ''ʿ$ʿ''ʿ#ʿ % 8 #ʿ-%$2 -$%& !'# ʿ
#ʿ'ʿ$ʿ $ʿ ʿ$% #, #*
Bʿ 'ʿ$ʿ ʿ''# #!$ʿ $ʿ# ʿ$ʿ $% *ʿ
'ʿ$ % -/Ɪ# ,ʿ%ʿ'ʿ$ʿ#ʿ#ʿ &'#ʿ# !ʿ'ʿ$ʿ $ 2$ʿ0
#ʿ'ʿ$ʿ !#ʿ$ʿ GFʿ $$ʿ +$ ʿ'ʿ$ʿ 2ʿ0
'ʿ$ # - &#%*0 #ʿKLOʿ $$ʿ % . 'ʿ$ % '' ʿ$ >#ʿ$

Springing
Springing
Springing
Scamondal Arch
C

Profile Plate and Elevation

Original arch here cut

Elevation of the Level of Rubble

Scale 8

Plan of centre, upon which the arches are turned

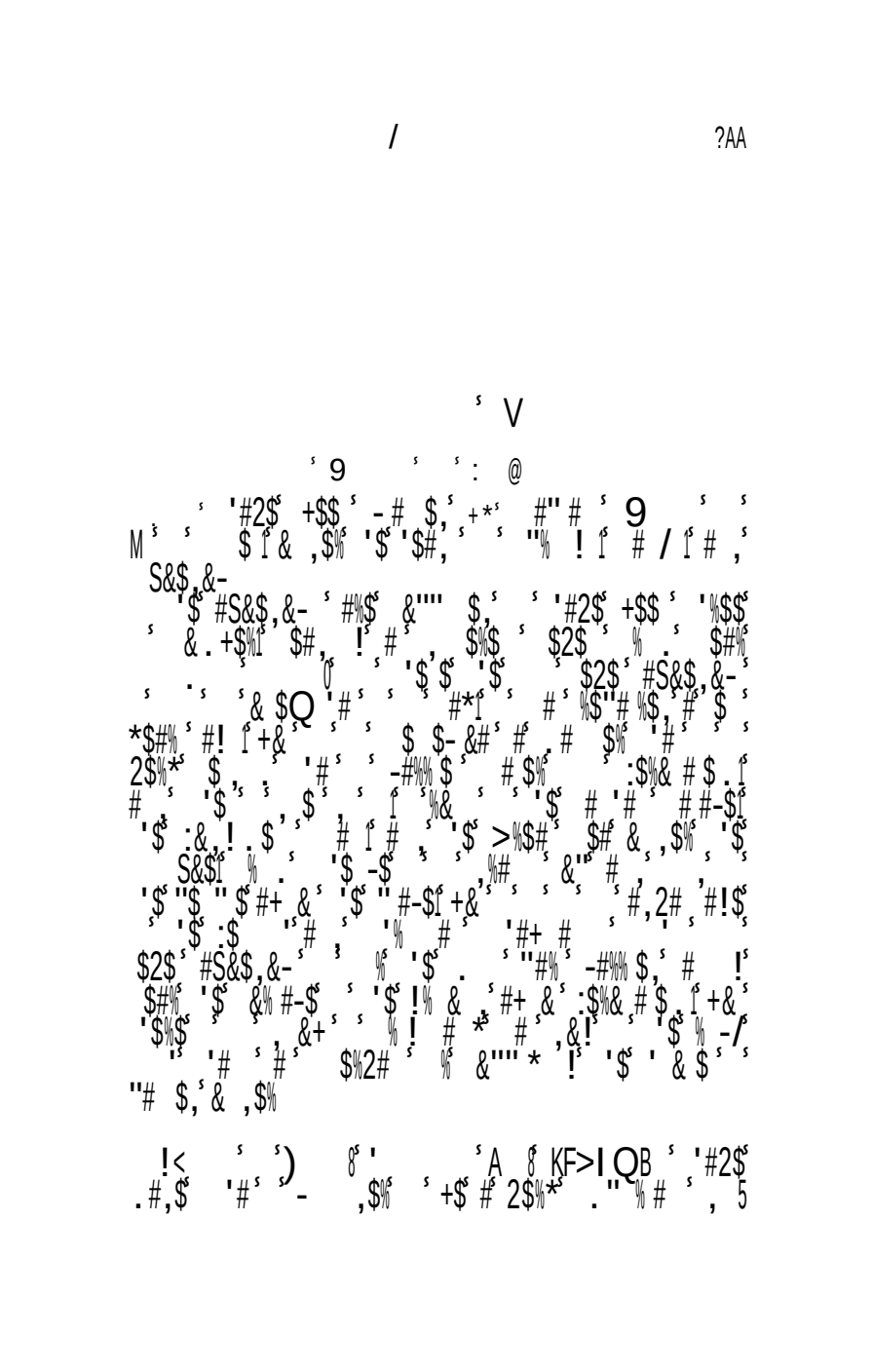
of Rubble Landing from Poplar Lane

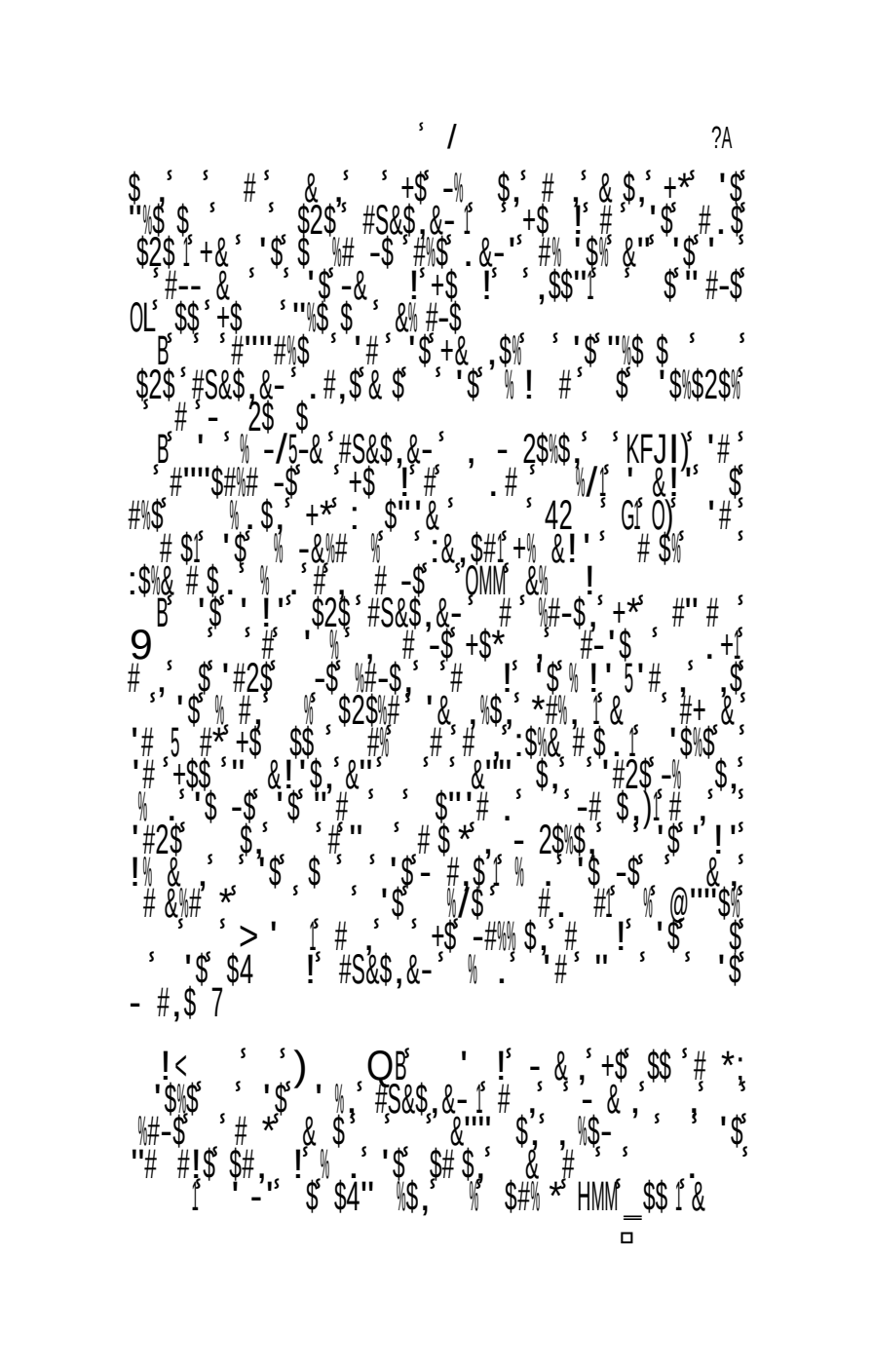
to Woodside

C

B

A





!<) @ GA 6 KF>I QB '#2$
$4#. $, # , &%2$*$, '$ % -/5-& '" #!$ $#, !

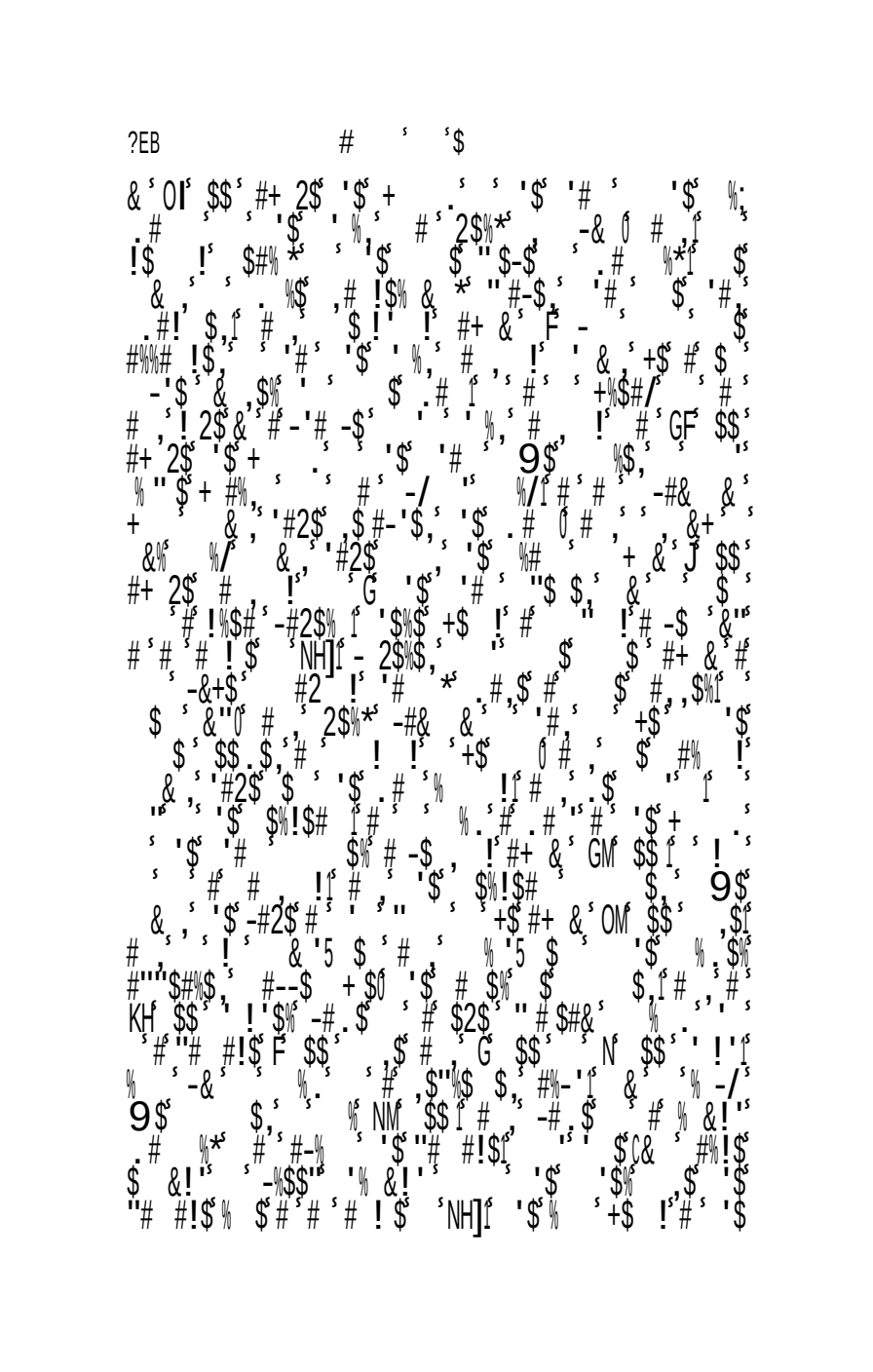
&' '$

Ø $$' ' Ø, $$' J -'$ Ø #' KNMM' $' '$#%,' '$'
#'$' & 9' Ł #$%,' '' !' #' $' -%+$',' +*'
#''#' /$,' +#-/ #%,' #' '$' U$2' %' #%- #*Ł#' ,'$%'
-#%$ & *' #' '$' -/Ł' '$%$' '$' #$%,' #'
#' &' #' #& ,' $ '$% %& ' !' % &' - & ,' '
!&%! !Ł+&' '$ '$% %& ' !' % &' - & ,' '
-$% # ' KNHM' $$' $ - ' $ -$' &% ' !' '
'$' $# Ł# ,' '$''# #!$' # # $,'#' $!' ' J $$ Ø
#' KJHF $$' $' -#' $' &'' ' &% ' % $,Ł '$'
''# #!$' $# ' !' ' '$' '''$' '#' $$' $4,''#!$)Ł'
#',Ł # $%#' &% '$% HM' $$ Ł ' '$' %! & '
&%' -# $' $%$' C& +$- . ' !' $4C<& $,Ł # ,' '$'
#' '%$$' # ! $' - &', #/$' 2$%*' $4#- *'
9 '$'$' $%$' *5,2 # ' '' -' ''# '
9 '$' -#,' $ & ' #' #%/Ł # ,' $' '#,' ,' # '
2$% !' % .$' & $',+$ %' &% - ' $%$'
+% C !'' & Ø $' $#% *' &%' -' &%' - ' $' #$%'
# $' $%$' -$' NO $$' +$ $$' ' *' ,'$# &%$.'
.' # ,' '$' ' % + Ł +&' .' ,'$' /
'# 2$%*' $#% *'#!%$$ 7 & ' #-- & Ł $

'$' - 2$%*' ' '# ' ' ' '$' # $%' ' '$'
? %! ' '%$ ' - ,'$%#+ $!' ' $' '$'
+C$-' ' '$' % -/5-&' -# # #+ &' $%& # $,Ł # '
''% 2 !' '$*'#,' +$$' - C$- &%$,' +*' $.' '#2$'
+$$ % - ,&- !5# #*' $' %$ & $# ,'+ , % .
'$' $. '' $
!< ') ' '# ' - ØKFJI Q'$ '
(' @ QB ' ' # '# '$4-#2# '
& $% '$' $ $' $#, !' ' $' '' Ł % ,$% '
$4#. $' '$' - . . & -# ' +* ' -' Ł '$' # $%

, 2$% ' %' $ &!' '& # $% ' ' & ,' +$ 2$%*
'-& ' - &$ '$ ' $#%-' ' %$- # *
',#% '$% ' '$ '$%'' ' $ %# -$ ' '$ # $% '
#',$$'' ' $ ' N $$ ' ' $. ,, $ ' '' ' #'
-' ' ! -# ' +$ ' $ ' ! &%' # $.'' '
'& '#+ % 2$ ' '#,'' #% ' ' '$ ' -/5-& ''' # #!$ '
'$ '' ' #, $4# . $,' # ' ' $%!$# % $ '.
& ' ' '' # #!$ $#, ! ' ' % ' '$ % '.
$ ' '$ #% '$% ' $ +$! ' $ #%!$ ' # ,' +$. !'
#+ & ' HM $$ ' % ' ' $ %# -$ ' $ '' ' ' ' '
' -. ' $ -$ ' '' $ ' # ' -& ' %/ & '
'#%',' :$& ' # $% ' ' $ '' # +$ -#%% $ ' % HM $$ '
'% &!' ' $ '' # !$ # ' $ #/$ ' &'#
'$ $'' ' $#, ! ' ' $ '' ' #!$ ' $ ' ' $ ' '#2$
&-' $ ' %$ ' ' ' $ % '$#, ' #+ 2$ # $% ' $ '
%$. 2 ! ' $ ' # ' !$% . $ ' . $ # $% &,' $ *
% $ ' # ' $ $ ' !$% ' $ % +$! -' /$ ' $
''# #!$ ' # - $#% $ ' & KI $$ 5 ,#*' # ' # # '
-#2$ ' #'%% 2$ ' # +$! ' + . ' # ' $$ ' :# '
-& ' $ ' '' ' -/ ' -& ' # '' % $ $ ' '
% . ' # ' $ ' &+$- ' 9 $. & ' $%$- ' #
-# ! ' !$ ' ' $ ' ' # ' ' - '
#''' $#% ' #' $# NM $$ ' ' $!' ' # ' -& ' ' $
% -/ ' $.#! $ & . % '# - .$ # # 2$%*
''' % & $.$ 7

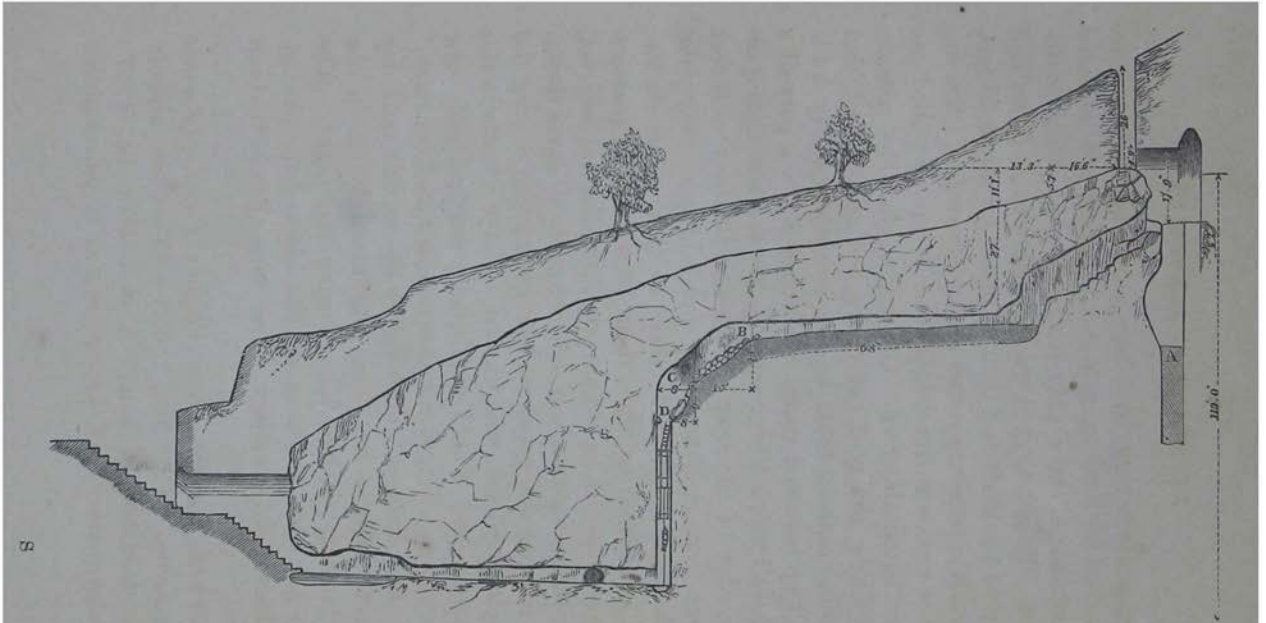
! < ') ' # ' OFgY[KFJI <QB .
.#*' - +$% ON ' '#2 !' . # #!$, + # # .#
S&# * ' # $% $ % &+ $' $ $ '
' & # ' % * # $% & % $ $ ' '#,'
. $ KO5 $$ +# $ ' O $$ S&#%$' +& $ $ + !$',
-& '$. ' # ' # 5$$ $! ' - & , *' +$



. ! # , - ' # . . $ # + ' - ' # + / # & O ' - & , ' # ' * ' + # - / # ! # ' % , ' $ # * ' & ' & # ' ' ' $ ' & ! ' ' # . # * # + ' - / & ' ' # ! $ 0 # ' ! $! ' % & ! ' & ! & $ 2 $ # 2 # & $, - ' # . + $ % L $ $ $ - & S & # $, # & ! # + & ' % OM $ $ O # - $ - & $ # + & OM $ $ # + 2 $ & O $. - % - & # 0 - % # + & OM $ $ # + ! 2 $ & O + $ & # # , $ $ " 9 $ ' # , ! $ + # - / % " $ O + & ! $! $ # % ' $ ' # ! & , ' " + $! $ # $ * & - / * ' $ $! $ # # - ' ! % & ' & $ " $ - $ C & % $ # - ' $, # # # ! ' - ! % & ' $ # $ ' # & $, ' $ ' $ # , ' , $ - $, $, # $ ' $ " ' # + & OM $ $ " ! # , ' $, # $ # + & F $ $, $ $! ' $ $ & , ' $ # " " # # ! $ + - / $ & " ! + # - / $ $ 4 " % $, # ' $ $ " # # ! $ " $ & B " $, $ ' $ ' $ 8 # ' " % ' $ " # # ! $ # $ $ ' " ' $ $! # " " " # $ * % $ # , * + $ % ' $ ' $ ' # O ' $ $ $ & ' % & ! # ' - & % & - ! # ' $ % 2 # ' # ' ! ' & ' $ " # # ! $ ' $ ' $ # ' O # ' $ 2 # & $ ' - ' # . + $ % & ' # ' $ " $ - ' # % - # # % - / ! $ % ' $ # ! $ # , " ! # - / ! ' ! # 8 $, ! % ' # + $ $ & $, # ' # C # % ' # $ % ' 2 $ * ' # + $ $ & $, # ' # % $ & ! $ ' $ % $ C # % ! " $ % $ -) ! % $, $ % * ! $ & ' $ " # # ! $ 0 # , # 2 $ " # ! ! ' $

?EFℕ + ‘ ‘$

‘# ‘# ‘ % ‘% !‘ +* ‘ –‘ # % ‘‘$. !‘ ‘ ‘#2$ +$$ ‘
#–‘$,‘ %‘#& !‘&‘‘ # $% #2 !‘ ‘$4‘‘ %$‘,‘
‘ ‘‘# #!$‘ ‘$%$‘ *‘%$. # $,‘ ‘#‘ ! !‘ & ‘.‘
$ ‘ !‘$‘ ‘ ‘ # $–$ #%* ‘ ! ‘ ‘‘# ‘
#* ‘ ‘$‘ ‘# ‘ ‘$‘ &‘‘#!# ‘ %#+ &‘ KH $$ ‘
‘‘#‘#% ‘‘$‘ & !‘% & ,‘$‘# ‘ #% $‘, 0 ‘$‘ ‘
‘ ‘$‘%‘‘$‘ # S&$ #+ $‘# ‘ $#% *‘‘$ $‘, ‘
+#-/ – + !‘&‘‘ ‘ !$!‘ ‘$‘‘# #!$‘
$ & ‘ :‘$‘ % ‘ –/) ‘#‘! 2$ ‘ #*‘ # ‘
‘ !‘, $ $ – & ‘+$‘ $$‘ +& ‘‘-$‘ ‘ %* # ‘,
+& ‘&‘‘ ‘$%$ # ‘ ‘$‘$‘ – !‘ ‘‘#% ‘ ‘#‘
,%* # ‘ ‘‘‘‘ $‘, 2$% ‘ * #‘‘ # ‘, ‘ # !‘ ‘
‘$‘ $‘ !$ ‘ ‘$‘, % ‘‘ $%!$# ‘ % $‘ # ‘ J $$ ‘
$% ‘ # ‘ #%% *‘$ –#‘‘$‘, ‘$ ‘$. 0 ‘$*‘ $%$‘
$#–‘ #+ & # ‘ –&+$ 0 ‘%$$‘ ‘$‘ . ‘ –# $$‘ $‘
+& ‘ .‘ # !$‘ ‘ ‘ –‘$‘ ‘$‘ +#-/ $‘‘# #!$‘
?‘ !$!‘ !$‘ ‘$% &% &%‘‘% $‘ ‘# ‘$‘ & ‘#‘, $‘
‘ – !‘ & ! !%$# ‘ # $‘ ‘$‘ – ‘ # ‘ ‘!‘ ‘$‘
‘‘$ ‘‘$‘ ‘ # . ! ‘ # $‘ ‘$‘ ‘ #2$ # ‘#%$ ‘ ‘$‘
%$# &%$! # ‘ & ‘ ‘ +$‘ 2 $‘ ‘# ‘ *‘ !‘
. ‘ ?$! $‘ # $% $‘ ‘ ‘/ 7
‘ OFg QB‘ ‘ ! !‘&‘‘ ‘ –# ‘ ‘$4‘ ‘ ‘#*‘
$‘ 2$% C$ ‘$‘ ‘ !‘ # ‘ ‘ * ‘ !‘ ‘ ‘
‘‘ # !0 ‘ ‘#‘ # $‘ ‘ ‘&% !‘ ‘ ‘ !‘ ‘ ‘
.‘ ‘ #%$ ‘ %/ !‘ # ‘ ‘$ + –/$ 5&‘‘ ‘‘# #!$‘
‘$ 2#& $ ‘ –‘# . +$% . % C#% ‘ ‘#2$ +$$ ‘
& ‘ 7
‘ ‘ 6, ‘ ‘ 4‘ $ ‘ D !< ‘
‘) ‘ # ‘A KFJF)QB ‘ ‘ ‘# ‘ # %$#‘ *
+$$ ‘ ‘$ –% +$‘ ‘ $ $% 2$. +$% K ‘ KFJI 0
‘‘$% ‘#‘‘ ‘ ‘$%+% $ ‘ ‘$ –‘‘ ‘ .#*‘ ‘$‘‘ ‘$ #+ ‘



ROCK-CUT PASSAGE ABOVE VIRGIN'S FOUNT.

&+(- # KF # KL)

OMMM

GMM

HM KM

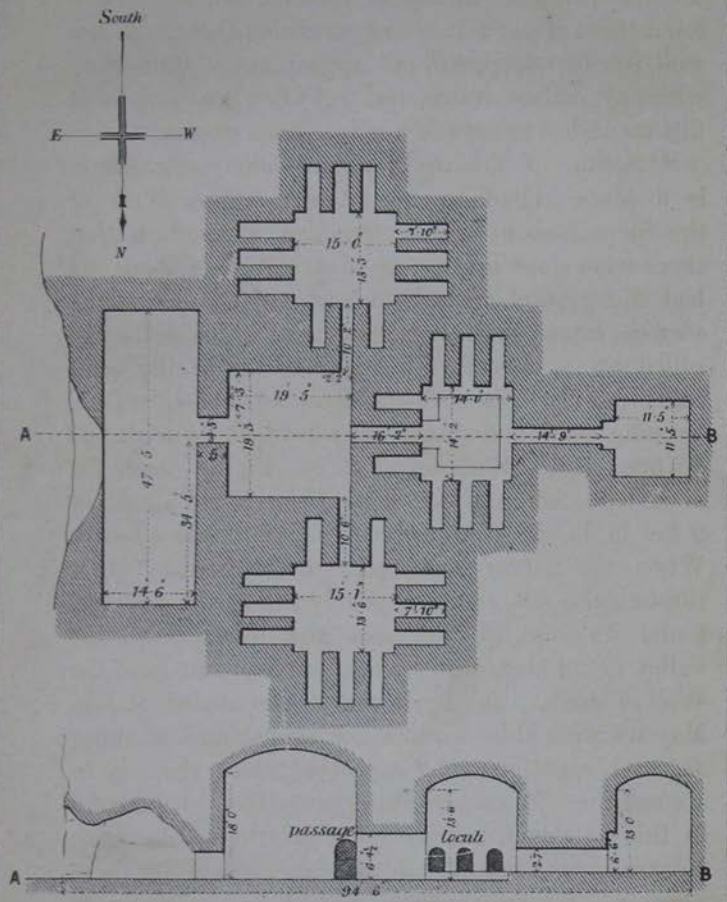
2#& 2#& 2#& NM

2#& 2#& 2#&

To face p. 257

JERUSALEM.

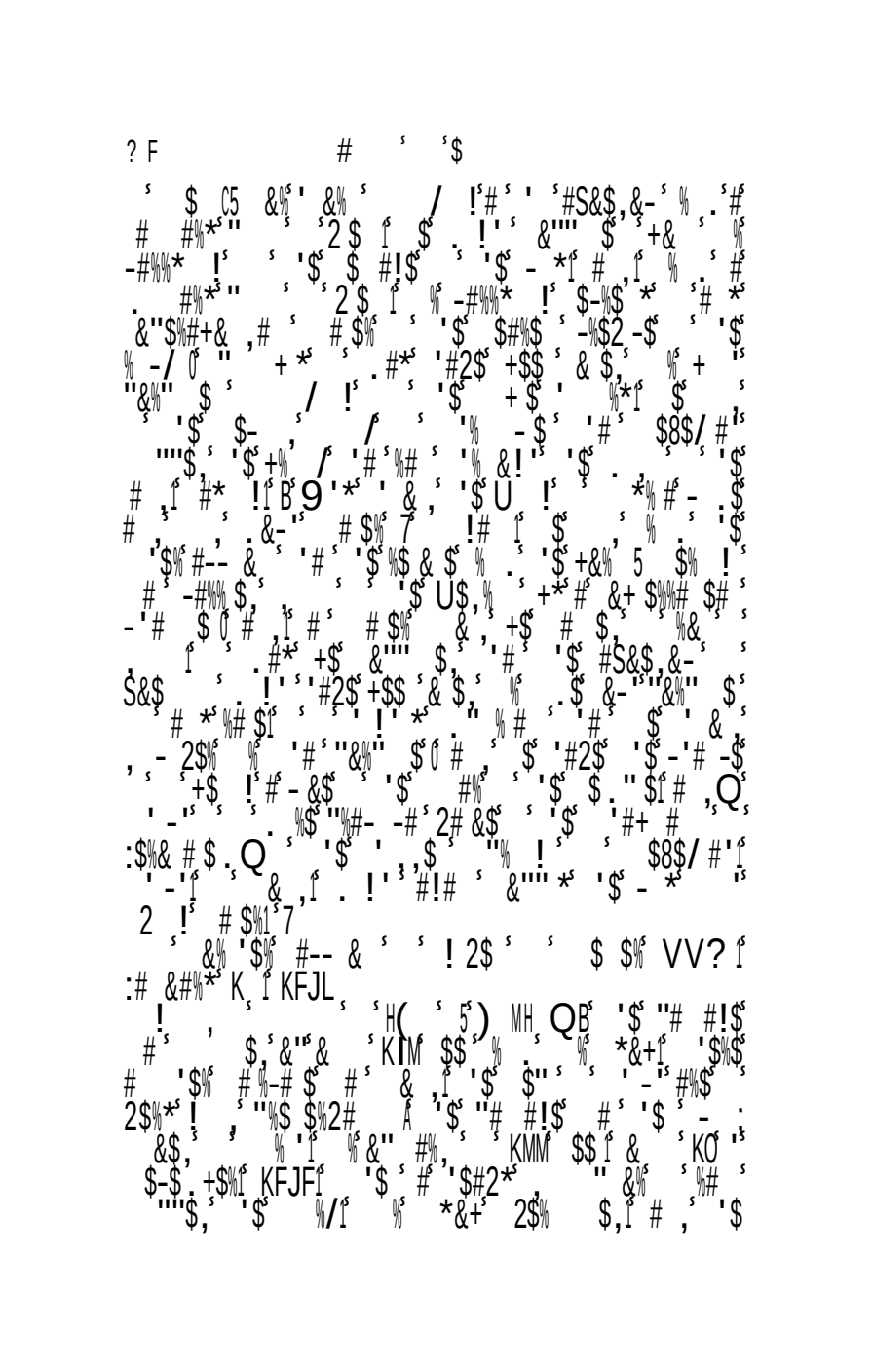
REMARKABLE ROCK-CUT TOMB ON WEST SIDE OF THE KEDRON ABOUT ½ MILE BELOW BIR EYUB.



SECTION ON A.B

Scale $\frac{1}{320}$ = 26·66 Ft to an Inch

Watson, Brooks, Day & Son, Ltd.



% -/5-& ''# #!$ # & ,& '' # %$# . # $%1
'-'& 2$ +* $ & # %-# $
B '$ %# # $-$. +$% KFJF # . &-'
!%$# $% '# & &# 0 &' KH ' 'F IMG
-'$ '#, # $! # * '+ &$! ' -' # '
$#, *' ! - & & %# ! # # &, , $ '$#2*
#

B $#% * -$% # '# '$ % -/5-& ''# #!$
IM $ & -# *+ ! # $# IM $ $ +$$ %$ & . $, & $
-$ '# . $ $ %/ ' # +$$ $ $ %$- . -$ -$4'' $.
%, $% + # # - %%$- ,$# '$ '' % +#+ $4'' $.
, &%$ ' # & , +$ - . %$, - & ! '$
%/

B / # $ #* ! $ S& ' '$ & ,' _'
#* ''# #!$0 ! # ' &! '' '& , . $%
'$%$ '# +$$ # # $% %-/ ! _ $#%$,
& A ! ! % '#, - $#%$,
# #* ' G $$ +$ %$# #%!$! % # , - 2$%$, ! &
_ '$ #S&$,&- "$ $,

B ''''#%$ *' ! % # % ! # * # &%# ! +& '
$% #, -& & # $. # %$-$ 2 ! # /
GH $$ % $# $! # OM $$ % %'
& ! ' $#% *' 2# '' # 0, #+ & NH $$
' $! ' $ % +$! %. $, +* ' $ ' ! '
!%#, &# * #''''% #- ' ! $#- ' $% ' $ ' ! '
'' $%$ #''''$#% ' +$ # ' # & '' #% , ! #+ &
O $$ S&#%$ - 2$%$, +* # - $ $ + .
''# #!$ +* ' _' $ $%$, #+ & L '#
. %$) $$ #+ 2$ ' + . $ - $% ! '#

$ ' &'# ' NF $$' ' % '5 $ 0 ' '$ ' !$ ' '
#%% ' '+$ $,' &''
B '$ % -/ '% &!' &' ' #' '#%,' . 88'[# ' '$
''# #!$ ' #''''$#% $'#2$ +$$ -& &' '[$ -' $
'$ &% #-$ ' '$ % -/ #''''$#% ' +$ ' $ ' '# '
IM ' $$' #+ 2$ '$ #S&$,&-
& $ [# ' #2$ ' $4# $ ' [$4 $ ' '
% . ' $#% % *&+ ' #'' ' KFMM $$ ' '$
U$ % ?# $*A ' '# ' +$$ '(&,- & *-& ' & $% ' $
' '$ $ $) ' '$ 2# $*[' '# [' &!' % ' $
% ' IM LM $$ & ,$% '$ &%#-$ ' '$ % -/[*'
-$ # %-# $ ' +$!' - ' -$ ' '$ $# ' $#%$%
' + '$ 2# $*)['#2$ ' ' $ -$ ' +*
. %$ '# ' NM ' HM $$ ' $ KFMM $$ ' $ '#2$
- $#% $, ' &[2 ' # %-# $ ' '#2$ +$$ ' $4'' $ ' $ '
#%$ #+ & G $$ ' $[# ' $ -$ ' ' # '+ & ' # # ! $
GH] ' $ $'' '#%$ #+ & ' K ' $!' [# ' $
%$# ' '#+ & ' KH - ' $ A ' ' $ -# $ ' $ ' $'' ' #%$
&- % # +% /$ ' ' $ + $ $
' # %-# $ ' ' $ #S&$,&- ' ' ,$$''$ $,' # $[' # ' '
% ' # ' #
B ' $ '' #-$[+$ $$ ' ' $ ' % ' # ' &% ' # %.
-# $[' $ $ ' # '+%# - ' & $ $ $#', !' #-% #%,
' $ $# ,$ ' $ 2# $* ' # & '5$# ' , %$- A
' # ' *$ $,' % GM $$
B ' ' #''''#%$ ' '# ' ' #S&$,&- ' # ' ' - $%.
#+ $ '' % # -$[% ' $ #+ &% -& ! ' ,' #%
+$ ' $ ' $ &% #-$.' & ' '#2$ +$$ $ % . $ ' '# '
' % # $% / $%$ -# +$, &+ [# ,
''% +#+ * %''&%$ # $%
B ' $ - $% ' $ '#2$ (& ' & ' ' . #% ' ' - ;
%&- $ ' & , & ,$% + %-'[# ,

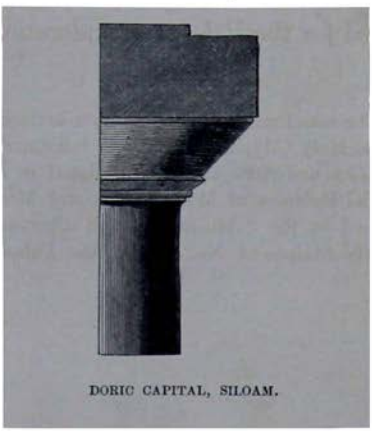
‘ ‘$

'‘ #S&$,&-‘ # !$ '$‘ '#‘ '‘ # .‘ #''''$#%# -‘ # ‘ '‘ -/5-&‘#S&$,&-‘ & ‘ '$%‘ ‘ '‘ # %-#‘$ ‘ ‘ .#*‘ '#2‘ % ! # *‘ +$$‘ &‘ ‘,‘ % +% ! !‘&‘'‘ '‘ -‘ '''' !‘ ‘ &‘ '‘*‘ #''''$#%$,‘ +$ 2$%*‘ . &-‘ % ‘ # ‘ ‘ '‘*‘ '#‘ +$$‘ ‘ ‘ - # ‘ & ‘ B 9‘ '#2‘ ‘ # ‘ *‘$‘ & ‘ ‘ '$%‘ ‘ # *‘ - $- ‘ ‘ % *&'‘ # ‘ *‘ ‘ ‘''% +#+ *‘ +‘ # - ‘ . & -# ‘ +*‘ ‘ -‘’ '‘ # $% % ''‘ '‘ #S&$,&- ‘ ‘ ‘ # ‘ -& ‘ # ‘ # $% ''‘ $‘ ‘ '$% ‘ '$% # *‘#''''$#%# -‘ ‘ +$!‘- $-‘ ‘ ‘ '‘$? %! & S&$,&-‘ % '‘*‘ ‘ '$!'‘ # ‘ '‘ '‘ ‘ & ‘ '#2‘ & ‘ +$!‘ $#% *‘ -‘ #’‘ # ‘ 2$%*‘ .&- '‘ !‘ $%0 # '‘ ? %! & ‘ S&$,&- ‘ 2$%*‘ .&-‘ ‘ . %‘ -# ‘ $‘ # , ‘ $% #% ‘ $#, ‘ # %, -# ‘ ‘ ‘ ‘ ‘ '' % # ‘'' ‘ ‘ ‘ #+ '‘ '‘ ‘ ‘ ‘

'$ - &# # $4-#2# - . $ -$, +*
#'' # 9 # &%# ''$%''$ -& #% - $ '$% -/ # #
$ %$, $%# ', $ $ # , '' $%* C^ $%
#%% 2 ! # #, $'' KGH $$ # % ''#% # * $
'$ - $ # $% '$ - #*$ $! . # '$, $ '$
'#% ! # '$ %/ # %$ '$ $%$, , # !$% & $
- &$ &% ! '$ $ $# '$ % ' %$!#%, $ $ ' $
'# &'''' $, +* +$ '$ $ '# #%$ /$ *
$# $, & # - , $% '$ %$ & '# #%$ /$ *
#--%&$ #$ ''% + $. -# # *_ .
& ! ' %/ # ''$ $. ' $. $*-# +$ ''$
. $ ''% #+ *$ $ '$%$ 7

) @ 8 KFJI QB + & # . $ & ' $
'$ 2 #!$ # $ -%$ $ -$ '$ #%$ # -'# .
$ % -/ #+ & ' - ' $ '$ #%$ # * %#, $
# ' - ' $ # $, $4'' $ '$ ''% ! 9
$ ' $%$ # ,#*'' 2 , $ '$ %$$ #, $%
%$#-' ! !$ '$% KOM $$ # # - +/*#%, % ''$
KJH $$! 9$ '# -$ $. $ $%.
! & $ '$ % ''$ $,$ $ %# -$ % '$ '' C& $
.# S&$$8 ! ' % &! '+& '# * $ $ -$ $
'$ -'# $ & & # ' ,'' KOH $$ #+ &
KH $$ +* GM -'$ $ $ # $, !$ #
$ $ $ '$%$ $ $ $%$, '$ #, , $% # '$%
GM $$, $ #+ $ & $ -$, KHH $$ % . $ &% #-$
'$ -'# $4#- *''$%''$, -& #% # , '''' ! S& -/ * % '$
% 8 # 9 # $% # %'''' ! S& -/ * % '$
% -/ +& %# & ! ' # -$ '$ % #

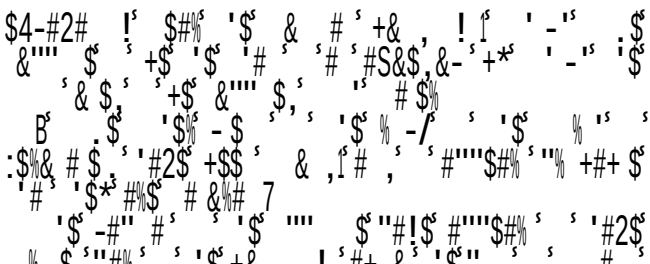
a rough stone pillar, and near it the skeleton of an infant; close to the pillar is a cleft in the rock, very narrow, into which the water was running. I got down into this, but it is a crevice which gets narrower and narrower, and there being no hold, I slipped down until my head was about 4 feet below the surface. Here I stuck, every movement jamming me tighter down the cleft. Ten minutes of desperate

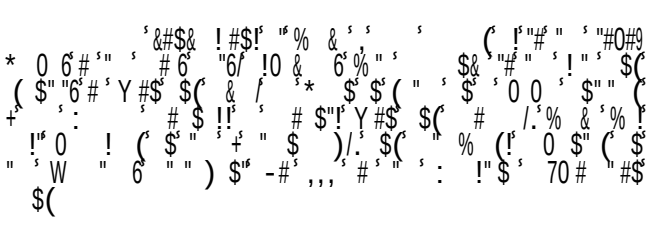


DORIC CAPITAL, SILOAM.

struggling, and the help of a friendly grip, brought me to the surface again, minus a considerable portion of my skin and clothing. On ascending, we had some little excitement—at one time the grass rope-ladder caught fire; at another, the men suddenly let me down nearly 3 feet, the jerk nearly wrenching the rope out of their hands.

"I cannot help thinking that this cleft is partially artificial. I have not yet ascertained its level with reference to Jerusalem, but there is the possibility of its being in connection with the cleft where we were



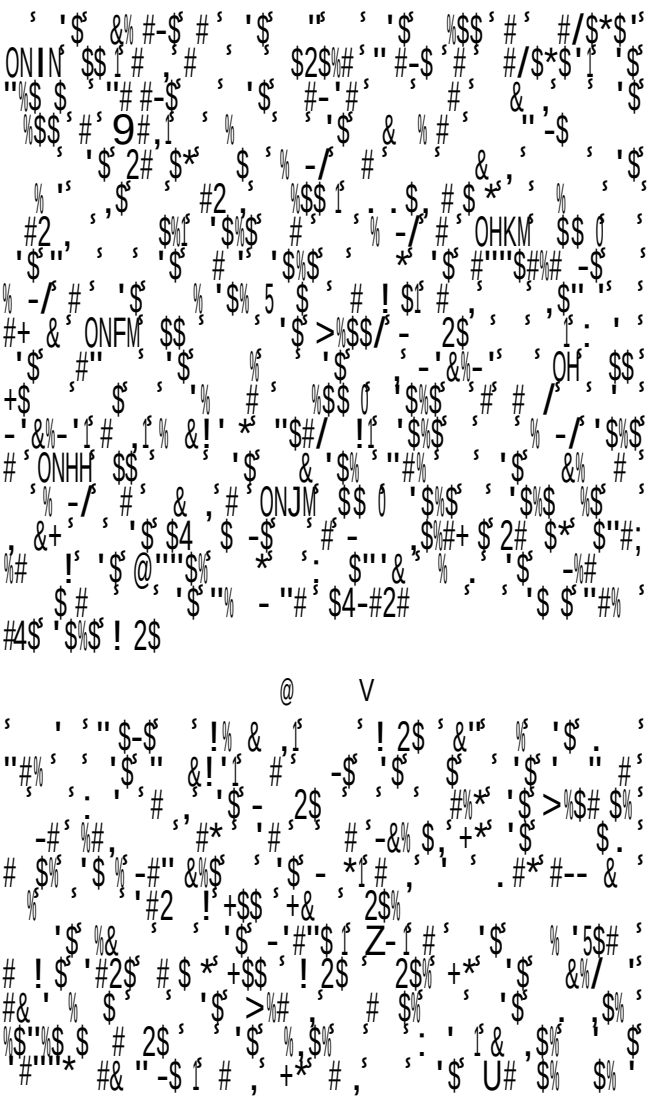


‘ ‘$

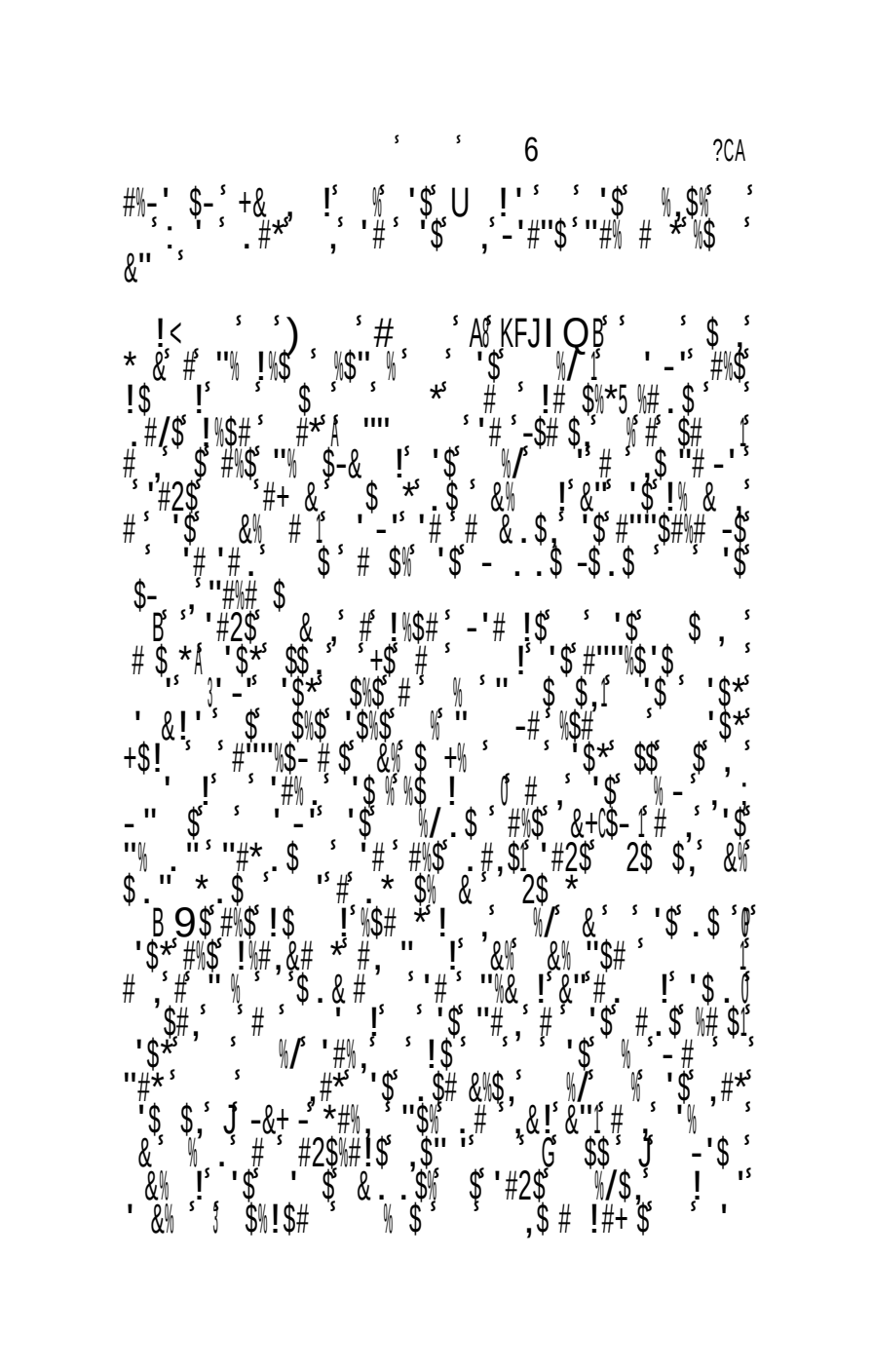
‘V

‘ ‘

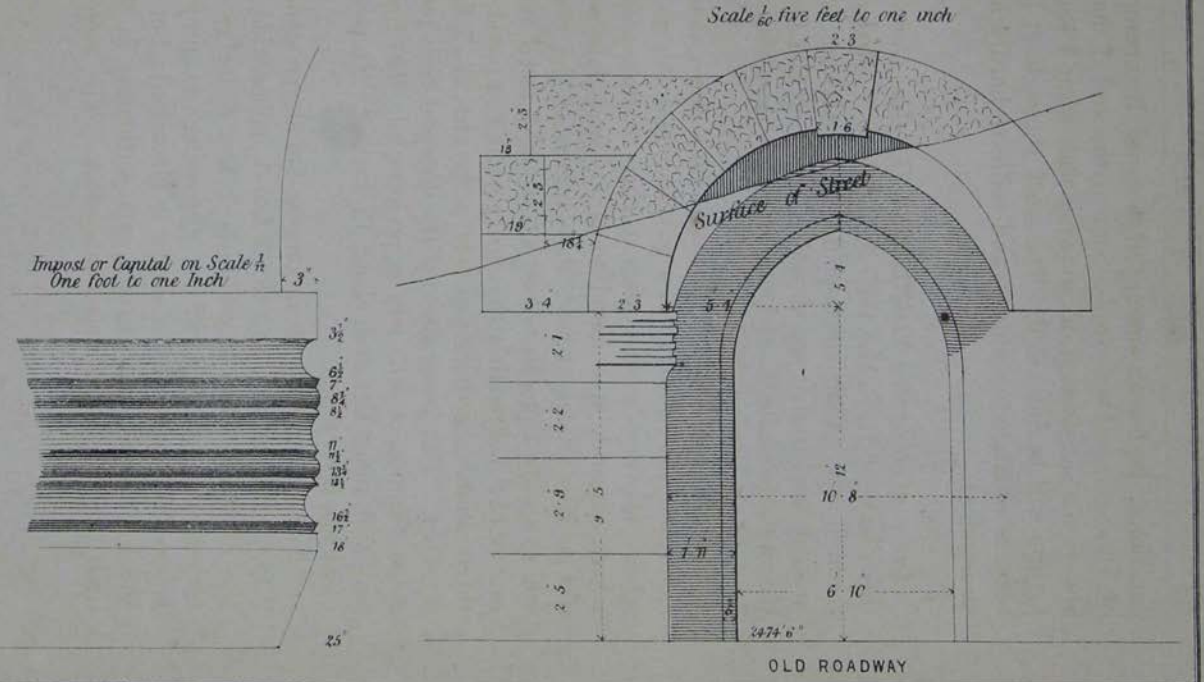
‘ $4-#2# ‘ ‘ ‘ - *‘ '#2‘ $ #+ '$‘ '‘ -$% # '‘ *‘ # 2# $‘* %& !‘ % . ‘ '‘ - #‘ ‘ # - &#%*‘ #''''$#%’‘ ‘ - . ‘ '‘ -‘ #‘ $‘ *#%‘ ‘ '‘ ‘ '‘ ‘ %’‘ ‘ '‘ - #,$ 0 ‘ %& ‘ '‘ %&!’‘ '‘ '' ‘ '‘ # ‘ # ‘ '‘ &% ‘ # 1# , ‘ 2 &# *‘ ‘ '‘ *‘ % '' $ ‘ $#% 9 ' ‘ 2# $‘* % -/ # ‘ $$ ‘ ‘ '‘ & '$% -'# +$’ ‘ #‘ ' & $‘ #%# ‘ # ’‘ '#%# ‘ ONHM‘ $$ ‘ '$%‘ ‘ $%‘ #%‘ ‘ % -/5-& ‘ -'# +$% ‘ # ‘ #‘ %#, ‘ #‘ ''# #!‘ ‘ ''# ‘ ! & ,$% ‘ *% '' $ ‘ '‘ # - &#%*‘ ‘ 2$% / ‘ 9# ‘ !‘ #-$‘ -/ # ‘ & ‘ # ‘ $$ ‘ 5-# ‘ V$ ‘ # ’‘ V#‘ ‘ ONNL‘ $$ 0 ‘ # ‘ # ‘ $$ ‘ -‘ &’‘ -‘ ‘ -& . +$ ‘ ‘ ‘ ! -‘ &%- ‘ OHKM‘ $$ ‘ '$%‘ ‘ # ‘ %#-$’ +* #'' # ‘ 9 %‘ #+ ‘ & ‘ GMM‘ $$ ‘ $# ‘ # ’‘ ‘ ‘ 2# $‘* ‘ # ‘ & ‘ # ‘ ! ‘ '‘ % ‘ $% ‘ $ ‘ ‘ ‘ ‘ &% ‘ # ‘ ONGM‘ $$ ‘ #’‘ $# ‘ ONHM‘ $$ ‘ # ‘ ‘ ‘ $$ ‘ &%- ‘ '‘ * $''& - %‘ ONII‘ $$ ‘ # ’‘ ''% ’‘ $% *‘ .#%/$’ I‘ #'' # ‘ 9 & # ‘ ‘ # ‘ +‘ $$ %, # -‘ .#''‘ ONJM‘ $$



%$4#.'$!#!#%,$'$'$'$%$-'
&#$!'$#/$,!&'#
#+$#$%2%&.'%$$%
2%#*#%,&,$%'$
9$-&'!#'$'&%#&'
-%#'!$'$'#$'$
-&*'!$!''$%.'!'#%
'#'+$-'$'#%#%-'#
'#$'#-'#'#,$'$%#%-'#
+$-0+&$'$'$%&,!2$$#2$2$&#'*
,$''&$$%$$%'$$#-$!$'$%!
#&,-$'$'$%$-&,'$'$#!$%$#*
P$&''%&-$,'$%$-&,'$#!$%$&%
%/!+&-&,!$.#''$%.&
ON'$''$.+$%!KFJI0&'>2$%.$
''$-%'#,''#,.$!#2!#'#,+$$
-2-$'$,$%$,#2$%*$4"2%#$
&%+$-#-&%'"'$
#-%'2#-#''#-$$%-'#*'!'&'
$-'#!#,#--%,!*'#$%$&/
$#',#$%#%,C$,+*%$-'$'$%$-'
%'&'#GHM$$'!!OH$$'$$'
'#'#2$%#!$!#,'#'#+&OMM$$',#-$%.
'$#8##%&'$%$
'#'NM$$'$$'$%$&/'&'!%-/'0
#+%#-'%$-'%&!$#&'#%,'$#%-'
%9#.'$#'#-&
'$!$'$%#$&'#'&#-%*''$%$
#''''$#%'#2$+$$#'!%$#&.+$%2#&
-%%$''!'$$$'%.!'$#8##%0
$'#+&OF$$'GM$$'+$'$



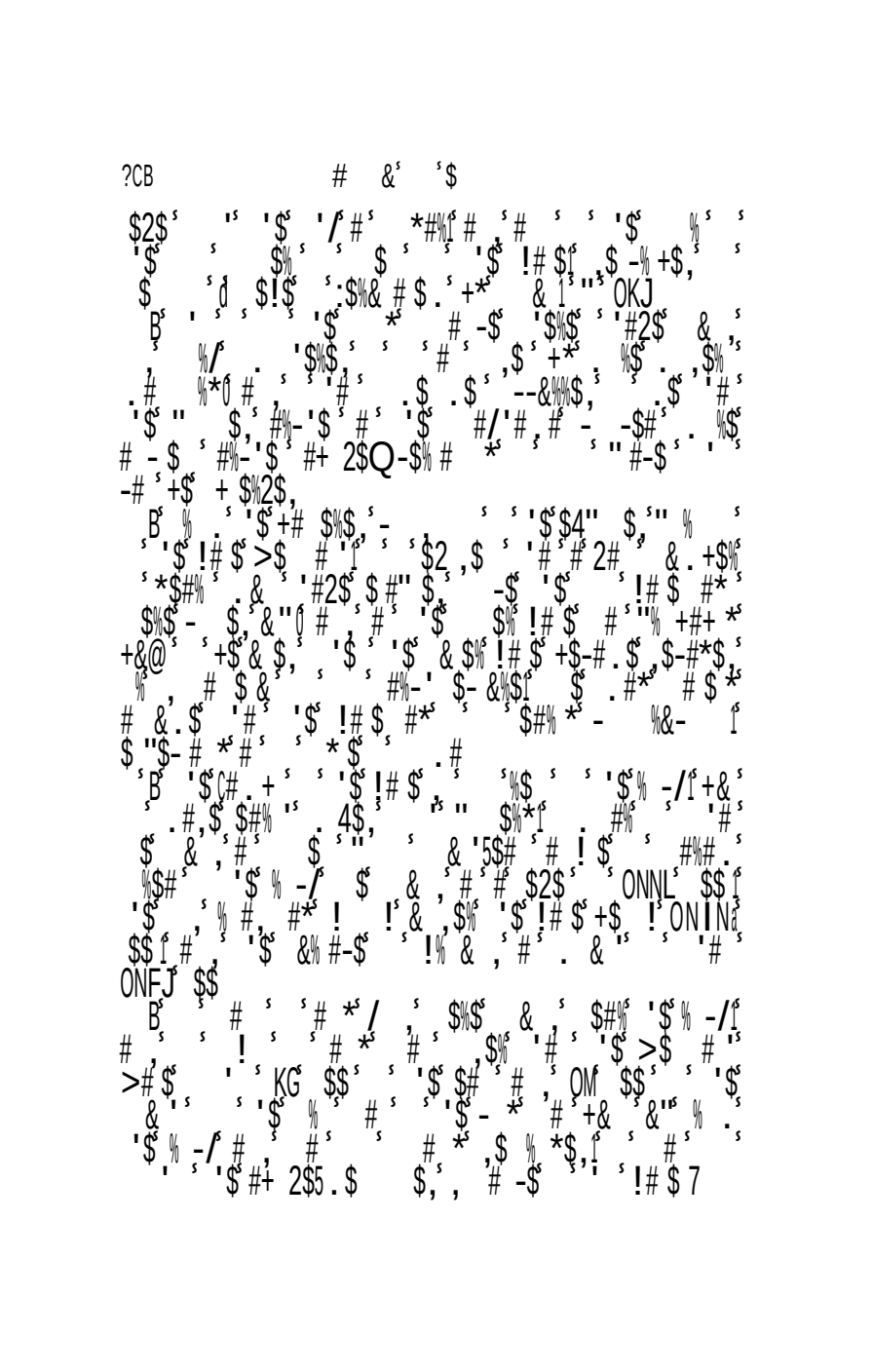
GATE OF GENNATH. (so called)



To face p. 274

Vincent Brooks Day & Son Lith.

$. - %-& #%I ' '$ ''# ' +$!' KM $$' F -'$ ' '
''% ! !' '$ #%-'' & ' '$ #+#-& ' #' ' & ' !' ''% C$- !' G $, -'$ ' '
. '' ' ! , '''%$ $%2# 0 # /$ -'' ' '
-
B ' '$ '$!' ' '!# $ #* % ' ' ' '' ' ''
' L ' $$' H -'$ 0 # ' #' ' !' ' ' '$ % $ ' '$
#%-' I $ #2$ # # ' $! ' ' % . -%
KN $$' L -'$
B ' !$!' ' ' '$ ' ' '$!# $ #* #
!# $ %* # ' % 2$' ' & ' I ' $ ' # ' & ' '#'
'$%$ # #' '-' ''' ' ' ' ' ' ' ' ' ' ' .
%- ' ' '$ #%-'' . $ $#% ' $ ' I # I ' $ ' '
+$! - $#%$ ' # #* I ' # ' & ' -# ' $ ' $ & ' $ '
#'' ! #%-' ' $4# . ' # $ ' ' ' # ' '
!# $ > $ # '' 5-# $) -# $ ' '#%# 2$ * . ' %. '
- %&- I # ' ' ' # '' ' . ''#%# 2$ * . ' % #*
' %$ $ $ ' N -'$ 0 # '' $ & ' ! # ' %#!# '
%& ' ' ' ' C# .+I '''% C$- !' N -'$ I # ' ' +$
$$ ' $. $ ' !' %& % & ' $ #%-' I # ' $% $ -#
. $ ' '#%* ' $ '' $% '' $ $ #%-' '
% . ' '# ' # $ & $% ' #%-' ' ' $ ' ' ' ' ' ' '
# ' ' # $ % ' #* $ ' '' C # ' ' ' ' ' ' ' '
$4-#2# ' ' $ *$#% '! ' # . # $ ' 4-$'' # ' '
'' ' $ $ & % '# & /I $ $ ' ! ' ' ! '#+ & '
$ -# ! ' $ ' !# $ #* I # ' ! ' ' ! ' ' ' '
% # '
! # $ #* I # ' ' '#2$ ' '# ' ' &-/
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '



?CF ʻ ʻ! " #$ %

'ʻ % 'ʻ ʻ ' ʻ #ʻ &ʻ '# !'ʻ ʻ ʻ $" ʻ $#, -!ʻ
ʻ ʻ 'ʻ # /ʻ 9'ʻ ʻ 'ʻ ʻ ʻ "ʻ ʻ ʻ ʻ & ʻ ,'ʻ -ʻ
,# /ʻ #ʻ "% +#+ *# ʻ "ʻ ʻ "ʻ ʻ % ʻ $# ʻ % ʻ ,'ʻ
-'ʻ ʻ ʻ "ʻ #ʻ ʻ &ʻ '# 2$%* # - ʻ ʻ # ʻ %& !ʻ
$#ʻ -# ʻ ʻ #ʻ 'ʻ ʻ ʻ ʻ #%ʻ %# ʻ ʻ # ,ʻ ʻ .ʻ #%
ʻ ʻ ʻ #ʻ ʻ 'ʻ # !5" #-$ʻ +&ʻ #""" ʻ $#% ʻ ʻ +ʻ
ʻ ʻ ʻ $ʻ ʻ +ʻ !ʻ 'ʻ %ʻ ʻ ʻ ʻ >#ʻ ʻ 'ʻ # ʻ
%$-ʻ ʻ #ʻ ʻ $#% *ʻ "" ʻ 'ʻ ʻ ʻ #ʻ ʻ ʻ %ʻ
&,',ʻ ʻ *ʻ "" $ʻ -# ʻ ʻ !! !ʻ % & ʻ #ʻ & ʻ
+ʻ KMʻ $$ʻ J -'ʻ ʻ ʻ -/ ʻ ʻ ʻ ʻ ʻ ʻ
+ʻ !ʻ ʻ #ʻ ʻ $% ʻ ʻ .# ʻ *ʻ ʻ 'ʻ ʻ ʻ
+& ʻ . #% #!ʻ ʻ 'ʻ & #ʻ ʻ ʻ #ʻ #%ʻ
Gʻ $$ʻ +$ ʻ ʻ '% #ʻ #*ʻ #ʻ 'ʻ #. # -& ʻ >#ʻ ʻ #ʻ
ʻ "% +#+ ʻ '#ʻ 'ʻ !% & ʻ ' &!ʻ #!%# ʻ "#%ʻ
$%ʻ '# ʻ #ʻ "% $ʻ ʻ ʻ ʻ #!%# ʻ "#%ʻ
ʻ -ʻ ʻ #ʻ ʻ #+ 2ʻ 'ʻ % #ʻ #* $#, !ʻ 'ʻ &! 'ʻ
'ʻ >#$ʻ # ʻ . ʻ ʻ S&# ʻ %&++ ʻ #, ʻ +ʻ
-'#%$ʻ # #*ʻ +$-#ʻ ʻ '# ʻ +$ʻ 'ʻ -& ʻ
-'% ʻ $ʻ & ʻ % ʻ - * ʻ ʻ ʻ >#ʻ ʻ ʻ 'ʻ
,$ʻ # , - $S&$ ʻ ʻ '# --& . & # $ʻ &ʻ ʻ #ʻ
% . ʻ , ʻ ʻ ʻ !%$# ʻ % ʻ #, ʻ
#. # -& ʻ %& !ʻ +$ $$ ʻ ʻ . ʻ ʻ &ʻ , #-ʻ
'ʻ #ʻ ʻ +& ʻ !ʻ ʻ ʻ # ʻ # ʻ ʻ . $, # ʻ
$%2# +$ ʻ ʻ ʻ ʻ ʻ * ʻ ʻ . # ʻ *ʻ
ʻ 'ʻ # . # -& ʻ >#ʻ $ʻ #/ !ʻ 2%* ' !ʻ ʻ
- ʻ $%# ʻ - ʻ ʻ # ʻ +& ʻ +*ʻ 'ʻ
%& #, $% ʻ # ʻ , ʻ $ % *$, ' $ ʻ 'ʻ *ʻ $ʻ -ʻ
- . ''ʻ $, ʻ $#2$ 'ʻ ʻ *ʻ , *ʻ ʻ ʻ ʻ
ʻ . '' #% ʻ % ʻ ʻ # ʻ & ʻ # ʻ 'ʻ ʻ ʻ ʻ
ʻ # . ʻ !ʻ 'ʻ %&++ ' ʻ '#, % . $ ʻ ''#% ʻ ʻ ʻ
ʻ ʻ 'ʻ ʻ $ ʻ ʻ ʻ ʻ #, ʻ $ ʻ - % ʻ ʻ ʻ
ʻ # ʻ %#-$,ʻ +& ' ʻ ' ʻ %&++ ' ʻ % ʻ

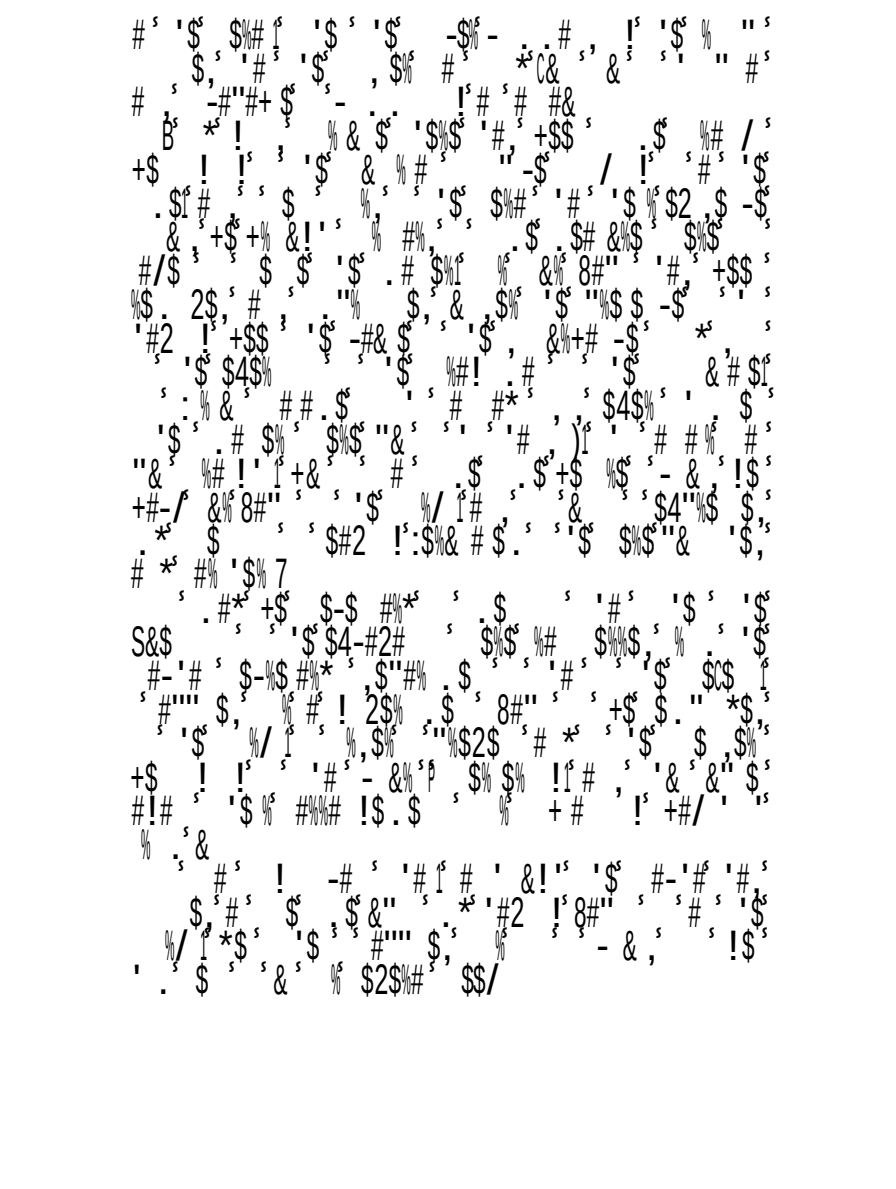
ʻ ʻ$

#ʻ $ %,$% #ʻ'#ʻ'$.ʻ$ʻ $%$ ʻ +$'#& $,ʻ&'$
+*, # % !ʻ % "$ +& ʻ'ʻ$ *$ & , .&-ʻ
% &+ $ # , '$ 2% '$* ' &!'ʻ + * #ʻ
'$ / &ʻ '$*-#.$ &"' '$ ʻ# ʻ+*"%$!ʻ
!$%ʻ# $ʻ#!# '$ $ʻ $ $ $ ʻ
'#ʻ# *#-- ,$ --&%%$,'#ʻ$* * $,ʻ+$
%$ '' + $ # , '$* &, +$ &% $ʻ ʻ '$ %/ʻ
& , & 0 +& # & $ # , # ʻ $
.#ʻ$ ʻ '$ $ ʻ'ʻ ʻ'# % + $
#ʻ,'+% /$ -ʻ+#-/ʻ ʻ #ʻ$-$ #%* ʻ#''''$#% -%&$ʻ
-#$ʻ #2$ '$ '$% # ʻ$. # % $,ʻ
'#ʻ ʻ /$* # ,-#%%*', ʻ $ʻ # ʻ$ %ʻ ʻ
$4''$ $ # , '$ % %/ ! ''#* .ʻ ''''$,ʻ ʻ
$ʻ$- &# *-&%$ ʻ'$. # ,$ '#ʻ ʻ %$ % &+ $
'#ʻ - %$0 '#, $ #/$ # *-#%$ '$ -/ʻ
.# $ ' & ʻ'% +#+ *'#2$ '#, . # *#-- ,$ ʻ
$ #. $ / , 7

!< 4 ʻ ʻ ʻ' :QBʻ ' ʻ #ʻ'$- .
&# ʻ ʻ '$ #* !ʻ+#%$ ʻ:$.$ $'ʻ -& ʻ ʻ '$
% -/ - 2$%$ʻ $ ʻ '$ -$. $ $ *ʻ # 2 $,ʻ
'$ % -/ ʻ$%$ #''''$#% ʻ ʻ'#2$ % .ʻ$ʻ ''#% ʻ $
- $ ʻ #ʻ \ '$ $ ''ʻ$ #%$ - ,$%$ʻ
+* ʻ +$ ' ʻ $ ''% ''ʻ$ ʻ $. #'+&ʻ
'$ $2 . ʻ #%- #* '#ʻ - $. $ ''ʻ$. #ʻ #.
-'# $% . %$ $#% * ʻ '$ + -#,$ -% ''
B '$ $4-#2# ʻ%$#-'$ʻ#$ ''ʻ KFʻ $$ʻ# ,
#%% 4& !'#ʻ$ ' % *5 4 ,$''# # ,!ʻ # & ,ʻ
ʻ#!# $%* #ʻ, % 2$ # !ʻ %KIʻ $$ʻ '$ &ʻ
#'%$ & ' # !ʻ #ʻ''% +#+ *'$ ʻ
'$ %-/ -#%''ʻ '-' .$ ʻ'#2$''%$ $ $ ʻ '$
$ $. * #''%''$, -& #% #-$ ʻ0L $$ ʻ $! ' 7

+$ $$ '$ &%/ ' $% # ' '$ #%*'' -$
'$ -$ *[# &% ! 2$% .'$ 8#'' . # # , ['
$#% '$. & ,' '$ '# [!'$#!%$# & # , $%
% ' *% # % +$ -# .$ %& ' !' '* # 2$%*
$4- $ # $[# $$!' &%8#'' %& $ &'' $.
/$ # '$# [# ! / -/$, '$ '# '' %#
[' ,$ # C& ' $ -$![' / /
'' %# ' '# ! '-'$&-/ * &-/ '$ % '$
,$ %$ +$ %$ '$ '# # $ $ %$ '# # % [
'& #2$, $ # 2%$ &.+ $
B '$ 8#'' # $% '$ ' !%#''' !$ '$% #
$%$ $ ' ! ' & [+& # # ' $ %. $% +$-# .$
- '' $ * $4'#& $, [# ,' ' $, $% '' -$$, ' ,
#/$ & ' +#* $, ' $ # '''' #$ * '
'' ! ' $ 8#'' ' % &! ' $. ' $0 +& ' $
$%!$# % $ ' %& ' $ % #% . # , $ -&%$ ' $
$#'' [# , $ ' $ # # -$ %'' %# $
$ $ ' $ $% ' # # $ Á # $ $ $-
!%$# -% ' # ' !# ' $%$, % & , [# '' # %
, $% -# $ +*[' $% #'''' $# $, [#/$ ' $ %
- ' .$#, $ -'#!$[+& ' $ *' /$ ' $ /
' $ $ ' $ $ ''% $ $ # ' $
&'' # , $ #%* #-'# ' # / ' . , # $
'$!&#%, ' ' $ #/$ ' $ $%# #*[# ' $ #
. #%-'$, ' ' $ $%# [# ' $% % # *' #--& $,
&% - %'' %# ' '#2 !' $ $ &'' # , +$# $ ' .
U !['' 2%[% . $4''$% $ -$ '# $ & ' --&%
$ $ % & # , + # $, ' $2 , $ -$ & , ' $
%$ ''$- #+ $ ''$% ' $ ' ''%$ $%% $ #+ &[' $ '$ %# .
#- [# ' $ ' ''%$ $%% $ # - .''# ' #!# ' $
, $% % # #& ! &% 8#'' ' '$ -# $ # ' '$#%,
& O

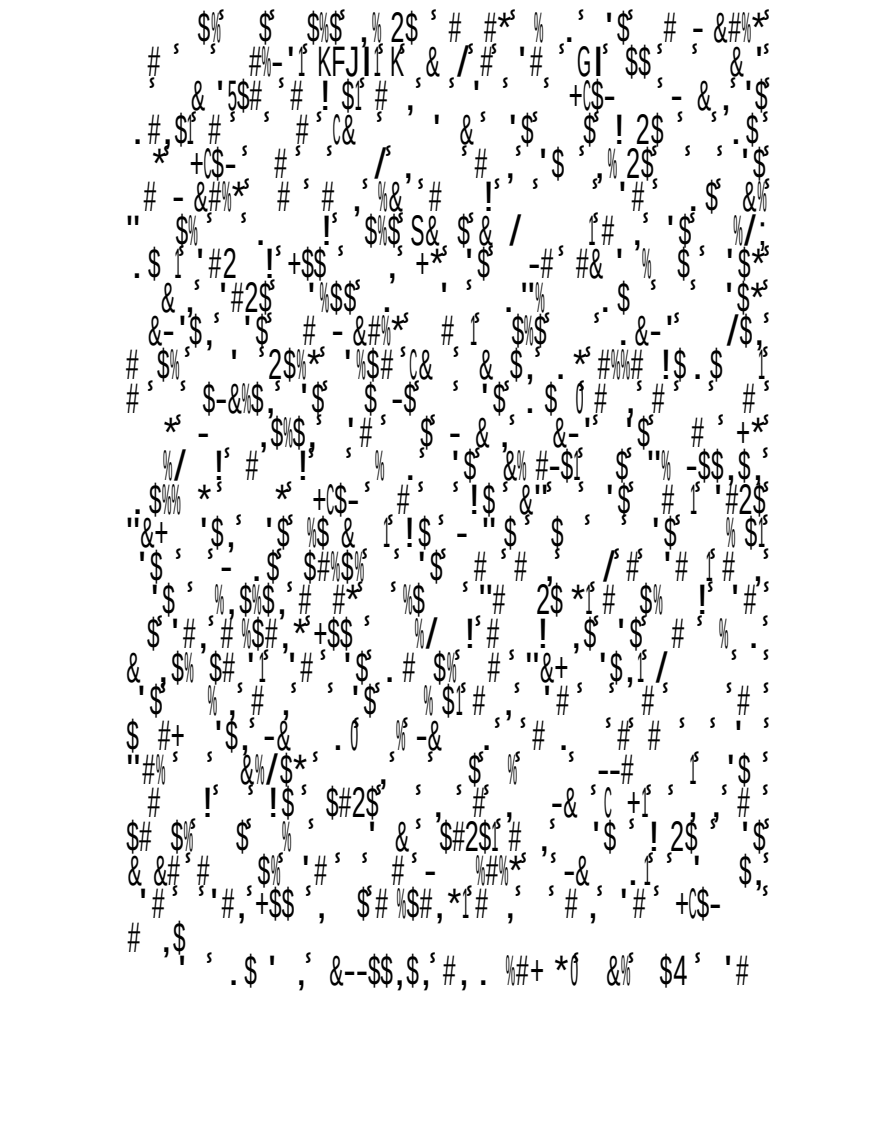
?FE & ‘ ‘$



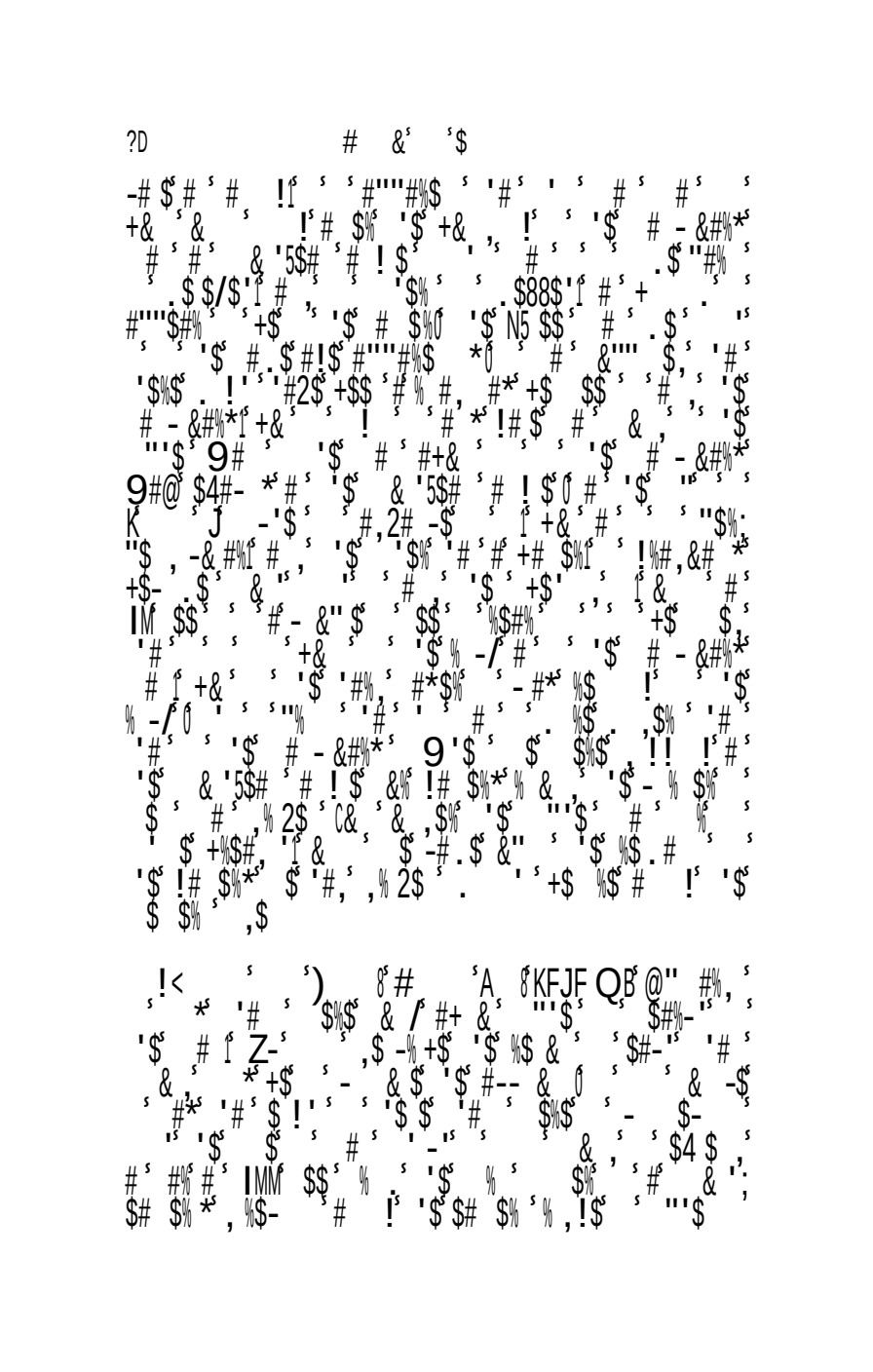
ʻ V

ʻ $% . ʻ "'ʻ$ʻ ʻ$& $,ʻ +*ʻ '$ʻ . ʻ ʻ#ʻ'$ʻ #.$ʻ
$ʻ '$ʻ$ ʻ$ $ʻ , ʻ $ʻ . ʻ %#'ʻ +$ $$ʻ
'$ʻ $ʻ$ $ʻ '' $ʻ#ʻ ʻ , #.ʻ+ & ,$ʻ ʻ '$ʻ $#ʻ +*ʻ '$ʻ
U$ʻ,% ʻ ʻ#ʻ,'ʻ $ $ʻ '$ʻ#ʻ +$$ʻ &ʻ$ʻ, "'ʻ$ʻ %$%$ʻ,ʻ ʻ ʻ
ʻ $ʻ $ʻ +$$ʻ &ʻ$ʻ, "'ʻ$ʻ %$%$ʻ,ʻ ʻ ʻ
&% $4-#2# O '$ʻ # ʻ ʻ ʻ '#ʻ ʻ ʻ
"'ʻ$ʻ Zʻ- '$ʻ $% .ʻ ' 2%ʻ#''''$#% ʻ '#2$ʻ % ! ·
*ʻ +$$ʻ &ʻ$,ʻ #ʻ %$ %$ % - $ʻ $ ʻ $ʻ #ʻ ʻ '#2$ʻ
ʻ &!!$ʻ ʻ'#ʻ ʻ #ʻ '$ $ʻ #.$ʻ +*ʻ '-"ʻ '$ʻ #-$ʻ
ʻ ʻ #ʻ / ʻ #ʻ +& ,ʻ !ʻ ' -'ʻ ʻ #ʻ
% !'ʻ ʻ ʻ *ʻ -# ʻ ʻ &,ʻ ʻ '$ʻ #!$ʻ ʻ '$ʻ
# $% / !ʻ ʻ :&,#'ʻ'#2$ʻ - ʻ .#,$,ʻ '$ʻ U$,%
?# $* +*ʻ # # ʻ #ʻ $# ʻ KHMʻ $$ʻ ʻ '$ʻ !' ʻ
-%$# $,ʻ &+ $S&$ *ʻ+*ʻ U !ʻ $% ,ʻ OMMʻ $$ʻ +*ʻ
'$ʻ +& !ʻ '$ʻ *#ʻ $%
U !ʻ ʻ # #-$ $ʻ$2 ,$ *ʻ#ʻ#ʻ $%
2ʻ #ʻ '$ʻ $ $ʻ "$ $ʻ ʻ"ʻ OJG)ʻ# $%$ %$ʻ
Oʻ '% ʻ 442 ʻG)ʻ U !ʻ. '#.ʻ.#*'#2$ ʻ +&
. &-'ʻ &" '$ʻ # Oʻ '% .ʻ 444 KN)ʻ U !ʻ
$'ʻ Bʻ- "# $,ʻ #+ &ʻ "'ʻ$ʻ# ʻ %# $,ʻ &"ʻ
2$%* !%$#ʻ'$! '# ʻ ʻ &'''' $ʻ '$ +& ʻ '$

V ?



#ʻ OMʻ $$ʻ % .ʻ 'ʻ #ʻ 'ʻ $ ʻ KMʻ $$ʻ 'ʻ $ ʻ Gʻ $$ʻ
,ʻ # *#ʻ .ʻ #ʻ $
/ !ʻ 'ʻ %ʻ '#ʻ #ʻ GIʻ $$ʻ &''ʻ ʻ &'.
$#ʻ # !ʻ $ʻ ʻ +*ʻ ! ʻ &-/ʻ #ʻ -ʻ %&-/ʻ &'' ʻ 'ʻ
%$. #ʻ ʻ#ʻ #ʻ -ʻ #ʻ 'ʻ '''ʻ 9#)ʻ # ʻ
ʻ ʻ# !ʻ $# $%ʻ ʻ ʻ HGʻ $$ʻ & ʻ
%&-/ʻ 'ʻ % -/0 ʻ 'ʻ $ʻ %#ʻ ʻ 8 # * # ! ,ʻ
'ʻ #ʻ %ʻ ʻ& ʻ $ʻ KHʻ $$ʻ %ʻ .ʻ ʻ # - &#%*ʻ
ʻ ʻ -#.ʻ #-% ʻ# #ʻ %& !ʻ $# #ʻ ,ʻ ʻ ʻ
Nʻ $$ʻ -/ʻ 'ʻ#%,ʻ .88'ʻ 'ʻ ʻ ʻ ,ʻ ʻ
#%!$ʻ 8$ # ʻ % &!'5+ ,ʻ# ʻ#ʻ 'ʻ $ #-ʻ
$%$ʻ *_ . .ʻ - !ʻ 'ʻ $% ʻ !ʻ ʻ ʻ%!$# ʻ
% $ ʻ'#ʻ ʻ -& *ʻ ʻ''%2 !ʻ#ʻ #-- ,ʻ ʻ
'ʻ #%!.ʻ ʻ $ʻ'#ʻ ,ʻ ʻ +$,%#!!$ʻ# !ʻ 'ʻ !#ʻ$%*
ʻ+% /$ʻ&''#ʻ 'ʻ + ʻ ʻ ʻ ʻ 'ʻ#ʻ 'ʻ ʻ ʻ
#ʻ% ʻ 'ʻ '#.ʻ $%ʻ ʻ +$ʻ & $,0 ʻ ʻ ʻ ʻ
#%% 2$ʻ #ʻ 'ʻ #ʻ - &#%* #ʻ # & ʻ #%ʻ ,ʻ
'#ʻ & ,!ʻ &% #-$ #ʻ & '5$# ʻ# ! $ʻ# ,ʻ
#ʻ 'ʻ $9# !ʻ #-$
ʻ ʻ !ʻ 'ʻ $. $ 2$ʻ#- &# *#ʻ 'ʻ $ #ʻ
$%$ʻ &%ʻ. $ʻ ʻ !ʻ 'ʻ $ʻ ,ʻ 2%#ʻ 'ʻ $ʻ $ʻ . ʻ %$ & $,ʻ
%/ &ʻ ʻ #ʻ * !$%ʻ ʻ $#%ʻ ʻ ''%$ $ ʻ
''& 'ʻ ʻ ʻ $%ʻ ʻ &''$% &ʻ 2$ʻ #ʻ ʻ
'ʻ$%$ʻ .$%$ʻ ʻ ʻ ʻ &ʻ # ʻ %$-/ $ ʻ .ʻ ʻ ʻ .ʻ
&-/ ʻ &ʻ 'ʻ % &!' &ʻ &%ʻ #+ &% ʻ# , $%$ʻ %$#, * ʻ
ʻ# * ' !ʻ '$*ʻ -%$ʻ +ʻ 4ʻ ʻ ʻ ʻ ʻ ʻ ʻ
',$ʻ* $%$ʻ''# ,ʻ ʻ ʻ -$ʻ*ʻ %$# $ʻ #. !ʻ 'ʻ $. $ʻ 2$ʻ,$ʻ,ʻ
'#ʻ ʻ ʻ - & ,#- ʻ ʻ ,$ʻ # -$ʻ 'ʻ #-'# %,$%ʻ
,ʻ '#ʻ ''$ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ
% ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ
#ʻ ,ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ ʻ



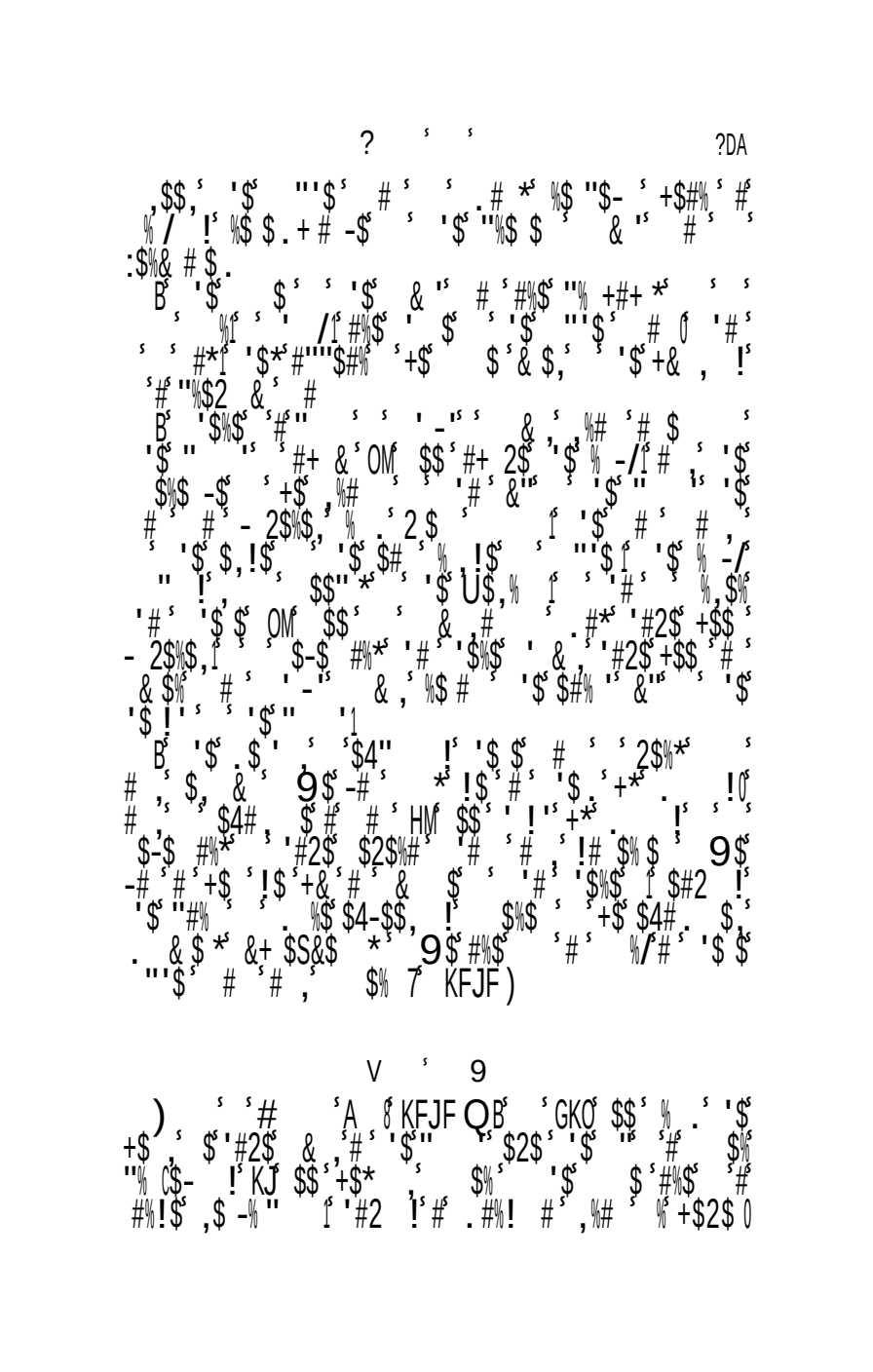
B '$ # - . $ - !# & '5$# # ! $4 $
''% !# . $# # # - &#%* % IJ $$
'$%$ '$%$ # $% '# % OG $$
L -'$ # , '''% C$- F $$ # ' J $$ '$ #
$ &% %, !$ #' %# !'' $#' , & '.
$ %$- % IMM $$ '$%$ $ #+%&'' *
+ & OMM $$ & '5 $ # ' $% $ $
.# 2$ # '#2$ +$$ & - 2$%$,0 $*' #2$ +$$.$
+& 2$% &+ $S&$ *# ' & ,+$ 2$%* ' -&
$ $% . $ '$ % ! # +C$- ' $%$
# % -/* / # ! '$ $#% ' *#+ & K $$
# $'' ' / !# ' $ $. # % # '' % $ #
'' , 2 $ # . - $ ' / ' # ' #
-# ' '$ '''$ 9# # ' $ $% . # $, +* # $%
''#-$, ' $ % -/* / # ' $ & !'>#$. # GM)
B 9$ '#2$ & ' 2% %#-$ $ #
'OMM $$ ' $ % -/* / +& $4-$$, ! *
& /$ * '# ' $ # & $% . # $ # 0 # ' $
$#% ' #+ & ' $% $ *- 2$% '$ % -/ # ,$'' ' $
% . K ' K $$ + $ ' # ' $ # !
'' % # .#* '#2$ +$$ #/$ & '# '''$ $,
% +& ! $ C* '$ $ #' ' ' # ' $ ''' $ $,
,#* %$&$ * ! ' # ' $'' ' $#%- ' $
-& $ & $ $. &- ' $, $. # ,
' $!% & $ #' # # %#-$ ' ,
' % $#% $ &% #-$ #% $ #''''$#% ! ' $ % -/5
-& $ $'' # , -#2$ ' - ' $4 $, # ! ' $ '' $ $
''' $ #% $ # ' $ +$- ! + $%# $, A $ #% . $%
' # ' $ $ #% $ ' $ ' #-$ ' $% $ $* ' #2$ $# $
% &+ $ + # ! # , S&#%% * ! ' $% -/ # ,

?D?

F

#

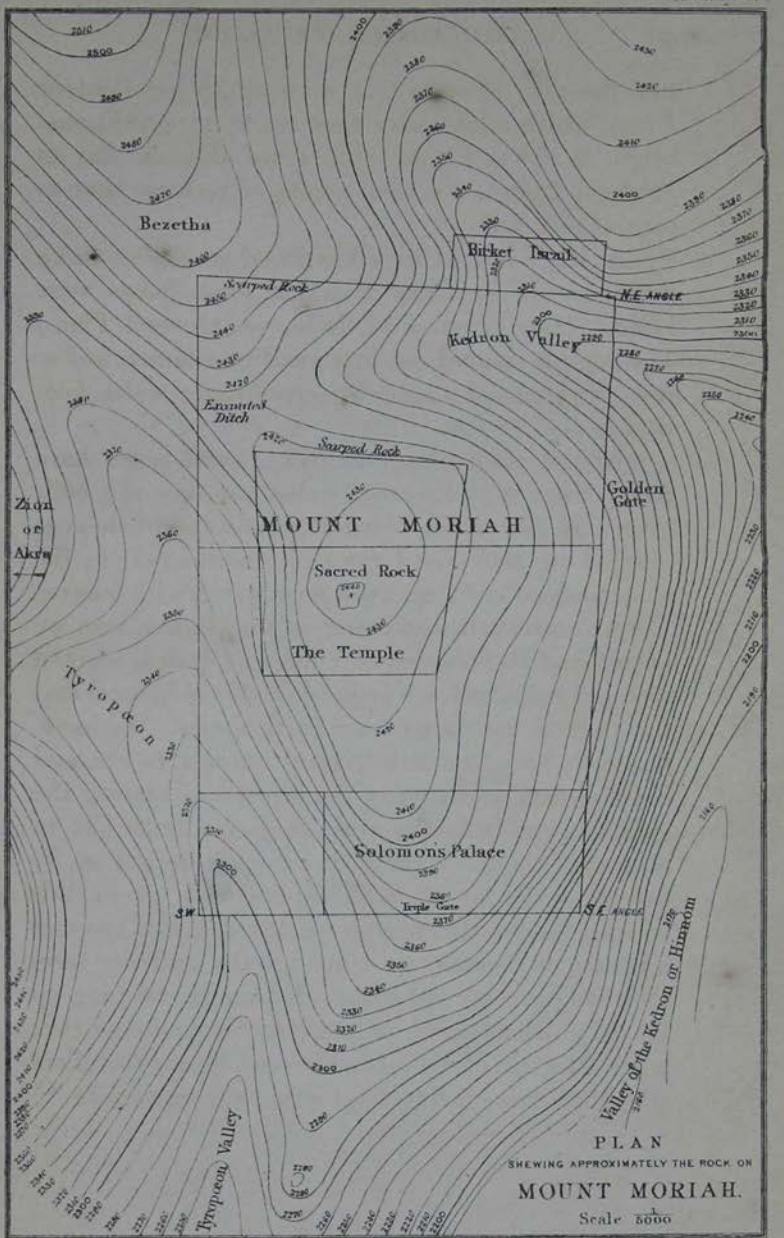
$



FM ! ' & ' % $, &% 9# + - . &- ' ,- #* ' # & % ' $% $4-#2# #+ & $ &. - /$ #% ! $ +2 $, #+ * " # $% $ - 4 %# $% #2$ &!!$ ' # ' . #* +$ ' % . # - $ ' & 7

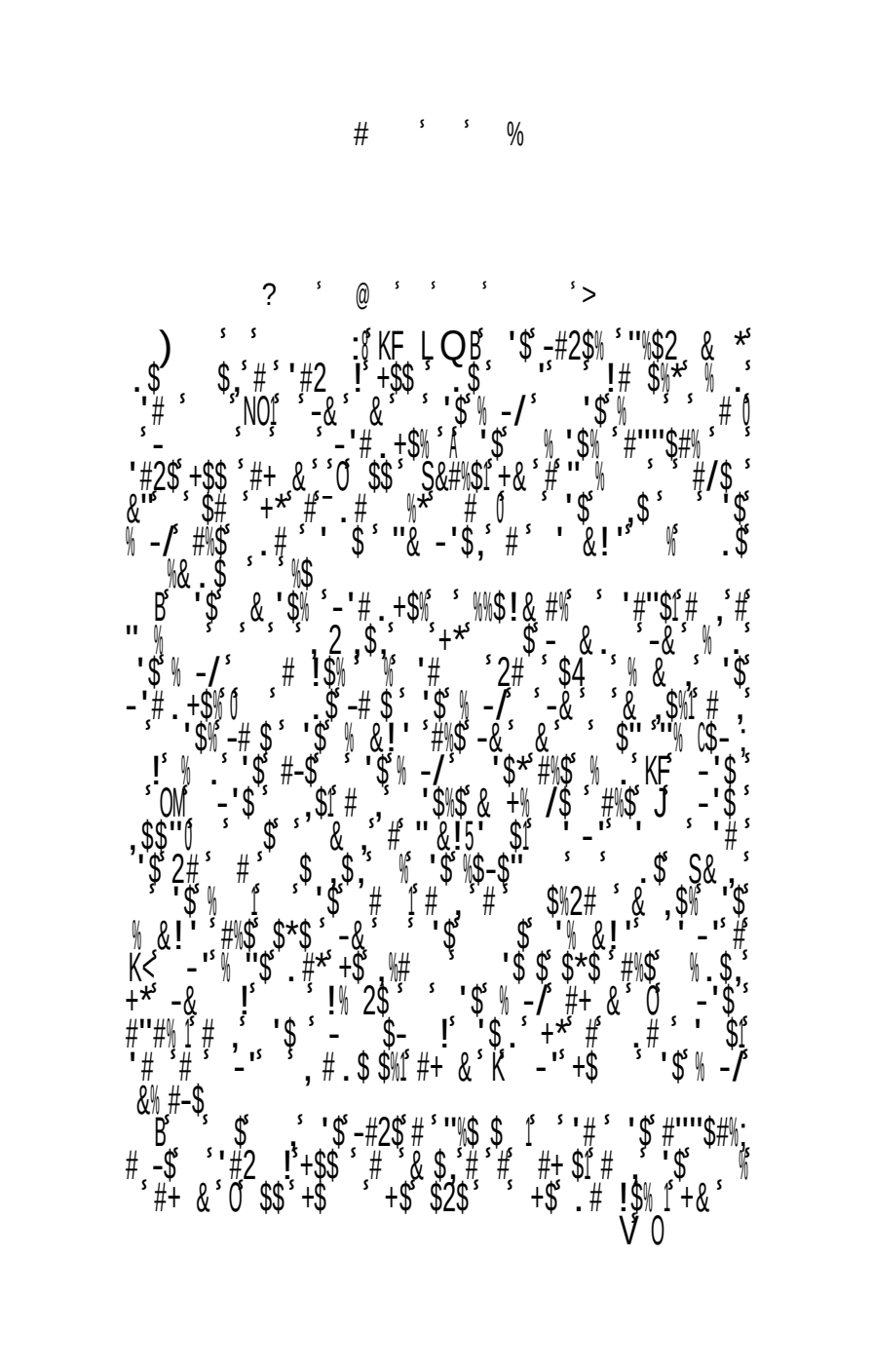
>

) :& KFJL QB ' # $% & / $#%- ' # * %#- $ # # %& ! & ' % . ' $ ' $ % " > # ' & ''''$% ' # - GNL # ' - . -$ ' KGO $ & ' $ % -/ # & # O $ $ # ' $ 2 # +% / $ + $ $#% ' $ $ $



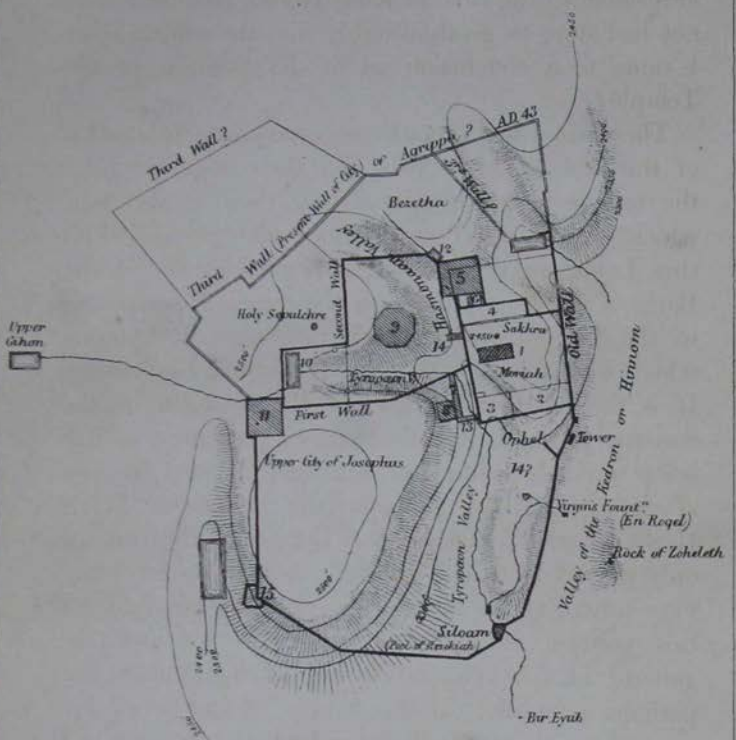
PLAN
SHEWING APPROXIMATELY THE ROCK ON
MOUNT MORIAH.
Scale $\frac{1}{5000}$

Vincent Brooks Day & Son, Lith.



JERUSALEM AT THE TIME OF KING HEROD.

SKETCH SHEWING APPROXIMATELY THE LIE OF ROCK.



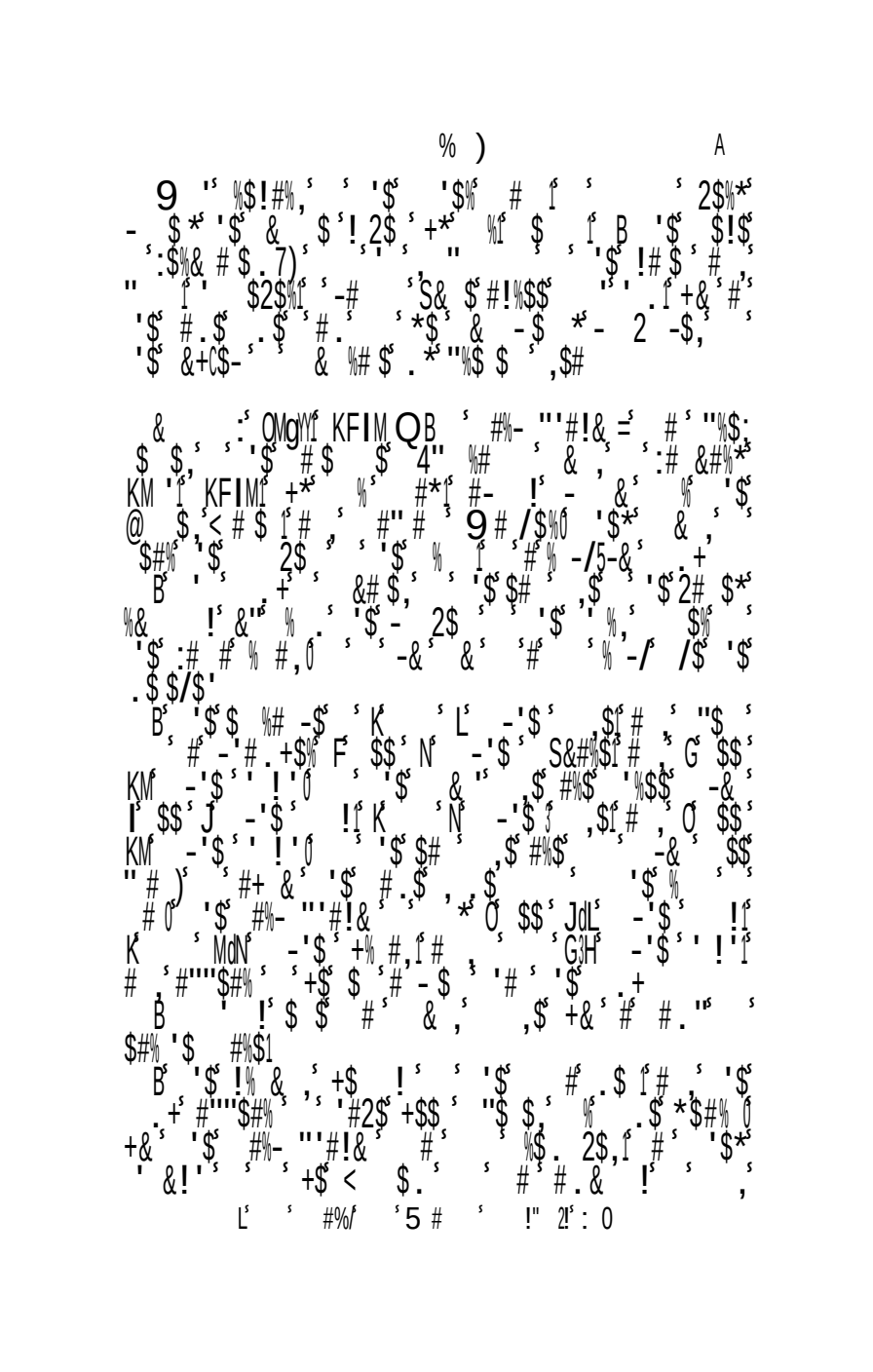
REFERENCE.

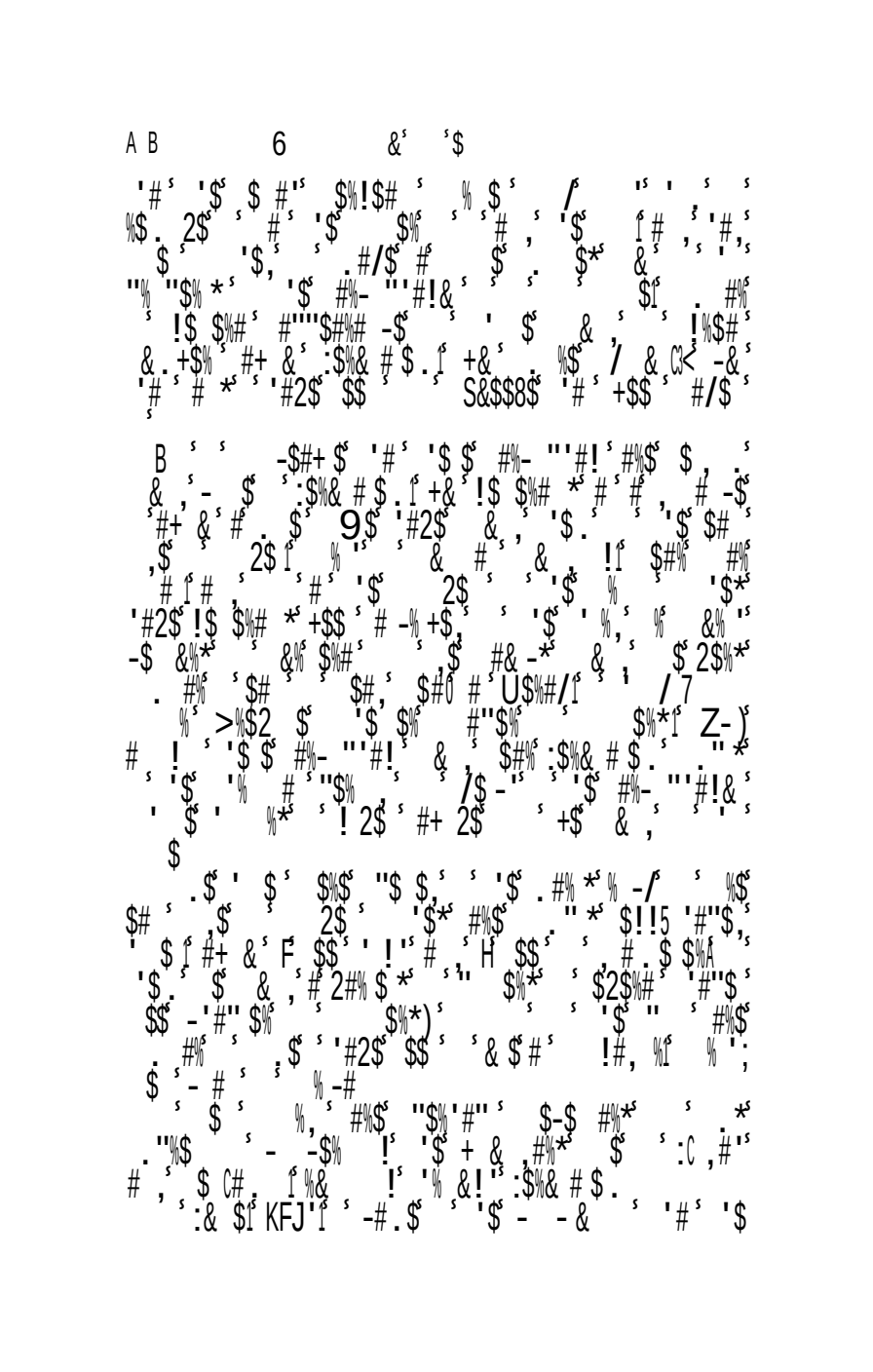
1. Temple of Solomon
2. Palace of do. — Herod's Temple
3. Added on by Herod
4. Exhedra (The Tower Baris or Antonia)
5. Antonia (The Castle)
6. Cloisters joining Antonia to Temple
7. Xystus
8. Agrippa's Palace
9. Zion & Acra
10. Lower Pool of Gihon or Amygdalon
11. Herod's Palace
12. Bethesda or Strathaon
13. Bridge built by Herod
14. The lower City called sometimes Akra
15. British Cemetery A.D. 1870.

Vincent Brooks Day & Son Lith.

‘ ‘

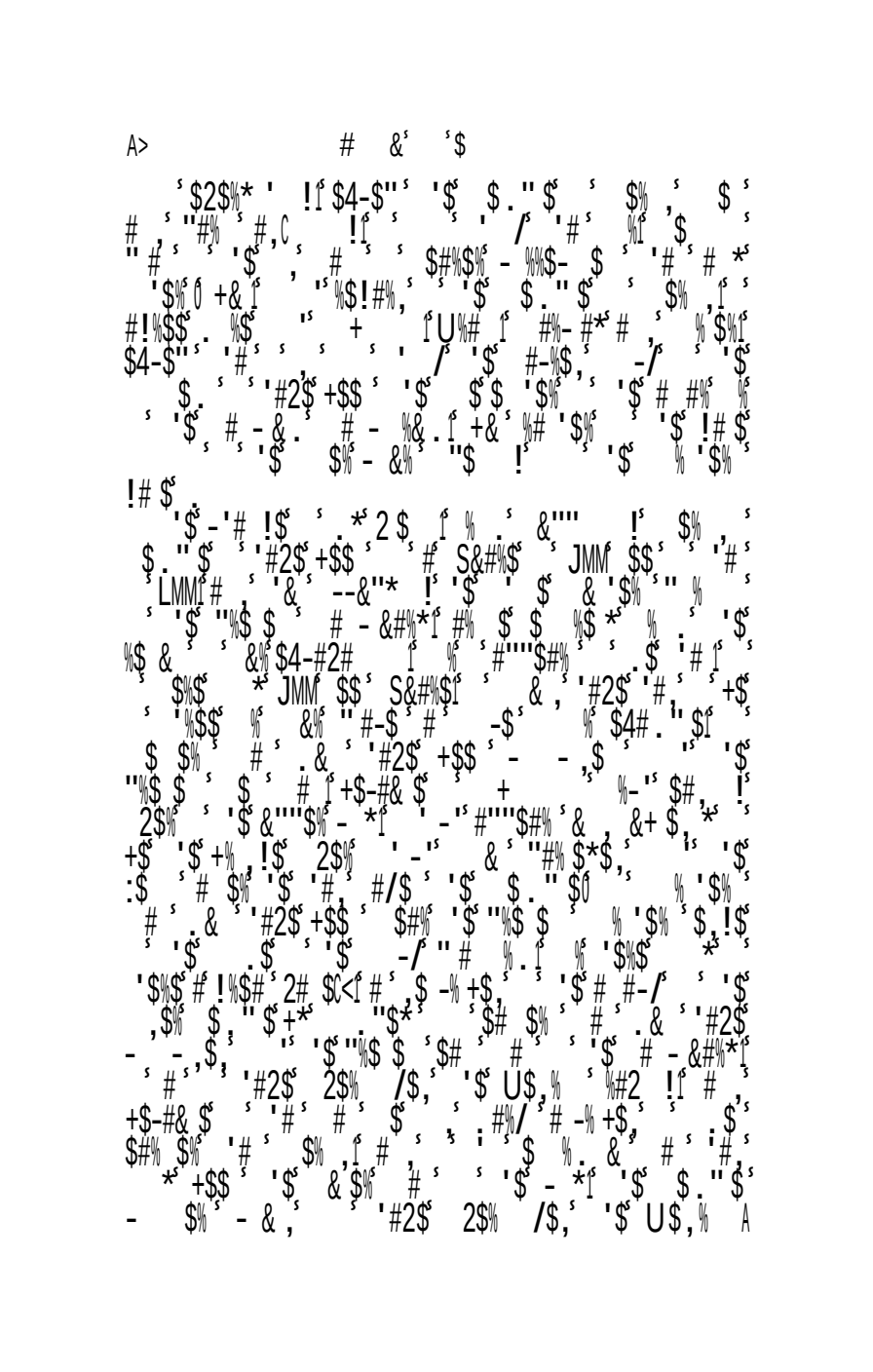
‘ ‘#2‘ !‘$#‘ ‘ ‘ -‘ ‘‘‘$ ‘ !‘ ‘ ‘ /‘ -‘ ‘
:‘$%& #‘ ‘. ‘‘ ‘ ‘ ‘ U !‘ ‘$% ‘,‘ +‘$-#& ‘ ‘#2‘
‘ ‘# ‘ ! ‘ ‘- ‘ %‘ &!‘ ‘ ‘ ‘ ‘ ‘$ ‘‘ &+‘$-‘ ‘ -‘
‘ -#‘ .‘ ‘ # - - & # ‘ ‘ ‘$ ‘‘ ‘
‘ . ‘‘ ‘
‘ ‘ ‘ ‘ ‘

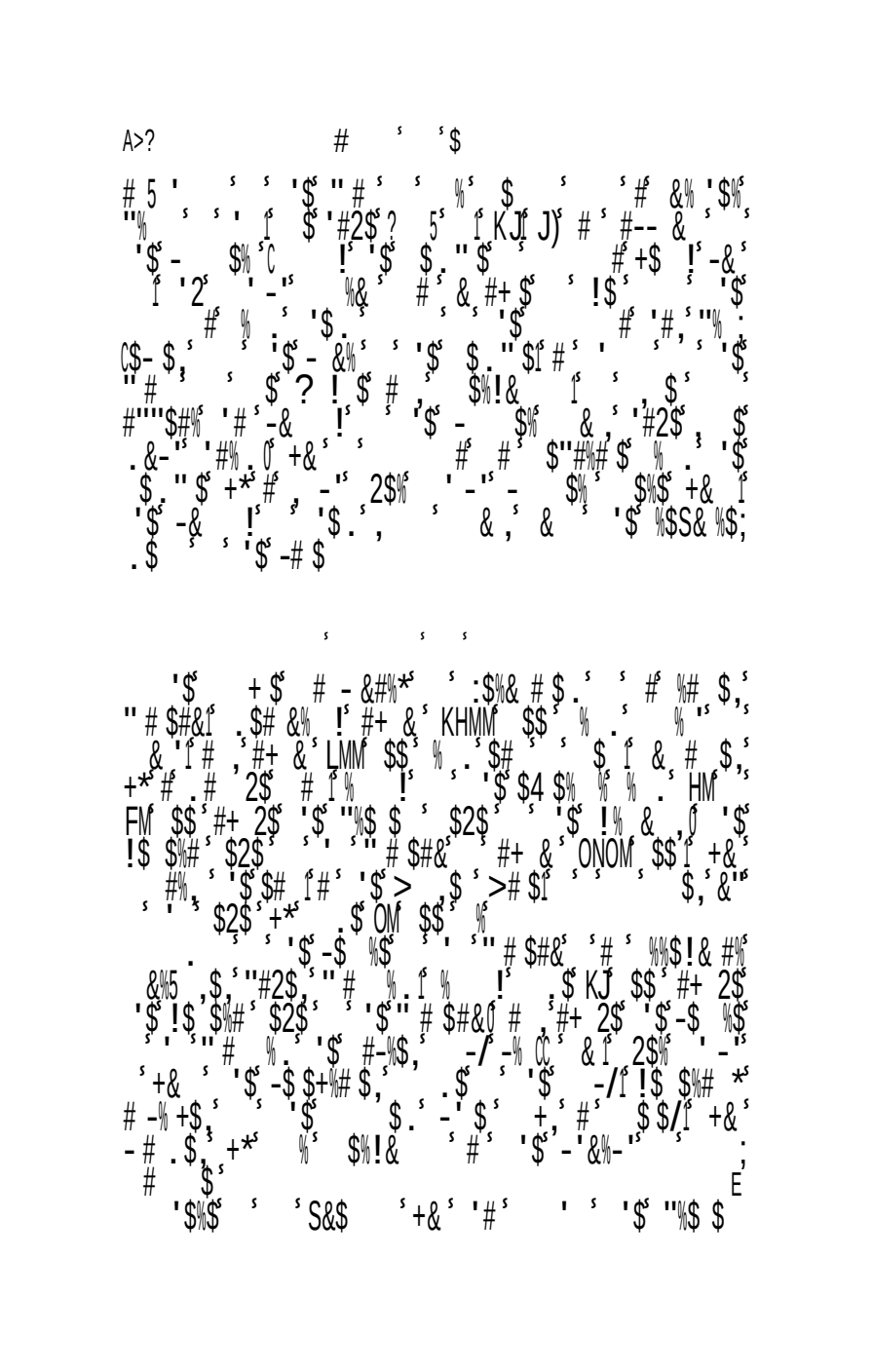




2# $* ʿ ʿ U$,% ʿ # ʿ , ʿ ʿ $%$ ʿ $ -# ʿ # ʿ
.#,$ '$ &!!$ ʿ # ʿ & "&+ '$ ʿ $ -$%
$+%&#%*ʿ KFIMʿ ʿ >#$#&#ʿ -#.$$ $
- - & % ʿ ʿ !'#% -/ \$' <$) - ʿ #:$
? %! ʿ & ʿ '& ʿ $ ʿ * !' '$ ʿ $ ʿ %$ "$- 2$ *$
ʿ '$ % -/ \ '$ $ ʿ '# ʿ ʿ '$ & # ʿ !$ ʿ
ʿ >#$#& ʿ $ $% ʿ OO , ʿ $+%&#%*ʿ KFIMʿ ʿ ! 2$ ʿ
ʿ $ ' ʿ B 6&#% $% ʿ *17 ʿ ? ʿ & , ʿ
'$%$ʿ +& ʿ S&$ ʿ !%$# ʿ # ʿ $! "ʿ , ! ʿ ʿ
+ & ,#%* ʿ . #* ʿ ! 2$ '$ %$- &"''' $ ' $
\ '$ -$ &'' '$?# $* ʿ) U$,% ʿ & ʿ
$#% *$ '''' '$ '$ & '5$# ʿ # ! -$ ʿ + $
- &#%*ʿ '$% ʿ -% ʿ $ 2$M '$ ʿ ʿ %#'#ʿ
*% '' $?# $ ʿ '$:# # >D $ # ,
''' #') #
%#+ - ʿ #-- & ʿ "$#/ ʿ '$ U$,% ʿ # ʿ '$
9#,*$ >$' .ʿ # , ʿ '$ "% "'$ ʿ $ $; #'ʿ 4 4 ʿ KK) ʿ
#* Å B> ʿ % ʿ '$ 2# $*; '$ ʿ '$ >#$
' -'ʿ . ʿ ' - ʿ + * '$ $ %* '$ ʿ # ʿ >#$
, $ ʿ ʿ #'''' *$ '$. ,$% 2# $*

'$ '$#, ʿ ʿ ' ʿ 2# $* ʿ ʿ % U$,% ʿ
- . $ -$ &'' $:# # % #, ʿ # . $ # ʿ #' # ʿ
% '5 $:$%& # $. ʿ # ' % $% ʿ
,$ +* $.+ $ U ! ʿ
% ʿ !' ʿ ʿ S& ʿ -ʿ % ʿ ' $ # .&, ʿ $ ʿ & ʿ Å ʿ
B 9
& $ ʿ ʿ 5 $ $ 5 $ 5 : ʿ 5 ʿ
9 ʿ ʿ # , &% '$%ʿ '# ʿ $





&

'#,<#'''$%$+% &!'& 2$%'
-$#%*'#'$%$'--# %.$,'
.%$'#'#&.$
'$$4'S&$'-'#%$'#''$ ".
''$''$''%''+$_#-&#%*'L'M'$$'
+*'GMM'$$'*!'+$$$'.$.''$-&%$'
#,''$'&'#1
S&#%$'GMM'$$'#''$&'5$'#!$'
'&''''$''#2$'+$$'+&'+*'U!'$%'!'!$'$%'
#%-+'#,'$''#'#!$'$%'
V*&'#''$@''''$%*
'$%$.#'!''%'JMM'$$'+*'GMM'$$'$4:
$'!'%.''$&+$%&,#''>#$'$'
&'5$#'#!$'&''''$'#2$'+$$'$$

'

''2$%*'$.#%/#+$'#''$%$'#,''$%
#.!'.#*#&'%$'$2$%..&-''$2$%#-$.$'$%$
,$%'''$%%''$-'''#-$''#-$.$'$%$
$#%'''
%'$'$'''$4'#&2$'#%!&.$'''$
'#''$''#-$$2,$*'&'#2$'$.''$+&'''#-
'$&''#$%'#''$.''5$'#!$'$'$
''#-$.'#'#''$&'5$'$'#!$'$'$
+$#-&#%*'2$'.''.''#-$--&''$''$
&'5$#'#!$
%'9#.'#'-,$%''$''#-$''#2$
+$$'2$%*$#%'''''$$8''#!$0FJ
''$)

OM # &‘ ‘$

%‘ + ‘# ‘#’’’’$#% ‘ ‘ #2 &% ‘$ # .$ ‘,’$#‘
‘,‘# &,$‘ ‘ ‘$!$ $%# ‘ #.‘ ‘ B # # &.‘ 2$
$. ‘.‘ &. # . 17 ! 2$ ‘ ‘$ / # +*‘ $#% *
% $%

-$% # * ‘, $‘#’’’’$#% ‘ ‘# ‘ ‘ %# ‘ #!%$$ ‘ ‘
‘‘ #- !‘ ‘$ # #-$ ‘ $%$‘0 # ‘, -#%$ &‘ *
$+ $‘ ‘ %‘ $%!& ‘ ‘ ‘ !‘ ‘ ‘ ‘ ‘
.&$,‘ !& ‘ +$ $$‘ . 5 ‘@‘ # ‘
5 ‘, ‘ +&‘ ‘ $%$!‘ $ ‘ ‘#,‘
‘$ $%$ -$‘ ‘#,%# ‘ ‘# ‘ ‘$ ‘ ‘$ ‘‘ ‘ ‘
‘) 8‘ ‘$ ‘ ‘$% ‘$ 5‘ ‘ ‘5 8‘ ‘ $ ‘
#’’’’$#% ‘ ‘ ‘$ ‘ ‘# ‘ ‘$%$# ‘%$ $% !‘5 ‘ ‘ ‘, ‘+$ ‘ ‘$
$. ‘‘$ ‘ .‘$ ‘ %, +& ‘ +*‘ .) # , ‘ ‘$
#-$ ‘ ‘ $. ‘ ‘ ‘

" # ‘ ‘$ A

‘ ‘MM‘ ' '‘ %-& ‘ $2 $ * ‘ -% +$ ‘ '‘
''%$ $ ‘ '&%-‘ ‘ '‘ $''& - ‘%‘ +& ‘ '‘
%$ $%$ -‘ ‘ ‘ + -&%$
N‘ KKMQ‘ $ ‘ ‘ -% +$ ‘ ‘''%$ $ ‘ ‘ ‘ ‘
-/ # ‘ ‘ ‘

+ #/$ '# ! &! '$ #$ "% .
- ! #-$ '$ + $# '$ & '5$#
% '5 $ # ! $ < * '$* $% 2$%* &- '
#'''!$#%# -$ % '$ % . $% *"% -$ G -'$!
'$ # $% % . KO ON -'$ A '$ #- '$ % '. -/ '
$# # ! $ $% +$!' +& &" % . '$ % '
$ $ #-$ '"% $- # . '' $! '# # #
#$% - %&- '# # '$ & '5$# # ! $!
'$%$ '$ $ #%$ # $, %$ $, # + . # #
*$% '$%"
9 '$%$!#%, '$ % &!'5 #-$ $ # '$
&'5 $ # ! ' '$* , $% $ %$ * % . # * '$
$# # ! # , &'''' $ '$. ! % %$# # %$#, *
! 2$! +$ $% ,#
2 $% $ #/$ # $ % & ' '$ # ' '$
- &#%*! # ' $ %$ # 2$ '$!' $ '$ 2%#
- &% $ #$! 2$ '$ #+ %#- ' - +$ & ,
'''' $, 4
- - ! . #* + $%2$ '# . * $,$#2 &%
'# +$$! 2$ '$. $ # $ '$ $4-#2# *!
!$ '$% # * $ - . + # #-
- ' #* '#2$ '#'''' $ $ % /$. $ ' '#2$
#2 , $, ! # . &- # '' + $! %$''$# !'# * ' !' '#
'# #'''$#%$, '''%$2 & * ' $ # # %/ '
:$%& # $. ! +$-#& '$ '$ #-- & '$%$' ! 2$ -# '
''%$ $. %$ '# #- '# # (
%/ 0 . * %$ $ -$ '#2$ '$%$ %$!$ $%# * +$$
. #, $ '$. '$ $ - ,$%$, $-$ #%*
- %%$- $ $%% % ' - '' $ % $% '#2$ # $
% . '$ # / $,!$ #- ! -' $
$4-#2# '#2$ '' $ $, & '' 0 # ! - $S&$ -$! #
-# &# %$#, $% . #* + $ $, / ' # ,

00 7)7 ,

H1 # " +" ! + > "I E", + ,+1 >FBC

^ $! "#$

ˢ ˢ$&&#) I) (ˢ " ˢ] ˢ ˢ ƒ !" "$ˢ " ˢ $ˢ # (ˢ
&# (ˢ $#ˢ ˢ * $ˢ #ˢ !ˢ "#ˢ 7& "ˢ $ˢ "ˢ -# ˢ $&" 6ˢ#ˢ
!)ƒ & !ˢ "ˢ : $&ˢ#ˢ 1 !ˢ% !ˢ "ˢ #$ 6ˢ : $'ˢ% #ˢ
(ˢ ! "(ˢ "ĸˢ " !ˢ &#$!$ˢ "ˢ & " 6ˢ #ˢ !)ˢ% "ˢ
" ˢ)# ˢ J # ! 64* ((ˢ # ˢ ˢ #$ˢ ˢ ˢ ˢ% !ˢ% ˢ $ˢ
"#ˢ " ˢ :# "#ˢ 70 $ $ˢ "ˢ) !" ' ƒ ˢ $#ˢ ! "! &"# 6ˢ $!% ˢ
% !ˢ# " $ (ˢ !ˢ #$ˢ !ˢ " !ˢ !" (ˢ," # * ˢ ,ˢ% !ˢ J !" (ˢ $ˢ
$(# $ˢ "#ˢ 7) $ˢ " ˢ (($ˢ 0# " #$ˢ # ˢ " ˢ $&" 6ˢ ,ˢ
>F Dƒ #% ƒ ˢ) $ˢ (ˢ # (($ˢ 7& "#$!ˢ " ƒ
! *$ (ˢ %" ˢ " ˢ ")2!ˢ #%$ˢ $(ˢ ˢ,ˢ ˢ #$& ˢ % #" ˢ #) ˢ "# !" " ˢ
" ˢ " ˢ " !ˢ ˢ,&# (ˢ $#ˢ $(" ' ˢ, $6ˢ)# ˢ%# 'ˢ " ˢ 6#$(ˢ
ˢ ! 6ˢ ˢ # #% $ˢ !ˢ " ˢ ! !" $&ˢ # ˢ " !ˢ (#&) $"ˢ ,ˢ
!ˢ(" (ˢ " ˢ ,D" ˢ)ƒ >?FAƒ # ˢ 6ˢ >!"ƒ >FBD

" $ $ˢ 1 2 $ 0 #& (!ˢ "# 6 ˢ # ˢ " ˢ 0 0#! ˢ # ˢ & 69
$ˢ # ˢ $ & !=# #* & ˢ ! & !ƒ $(ˢ 7& "$ˢ # ˢ $" 8 " !ˢ
ˢ " # " !ˢ $ˢ 6 ˢ ˢ $J# $ (ˢ "# * ˢ $ˢ # & ˢ "# &9
&#) 0 $6ˢ)ˢ #$ˢ !ˢ) !! #$ˢ ˢ !ˢ # (ˢ ˢ #% (ˢ "#) ' ˢ
7& "#$!ƒ $(ˢ &WJ" $ˢ &#$(" #$!ƒ ˢ #& !ˢ % ˢ $" 8 " !ˢ
ˢ ' 6ˢ "# ˢ # $(ĸˢ ˢ ! # (ˢ #$ˢ $# &&# $ˢ ˢ 0) "" (ˢ
"#) ' ˢ 7& "#$!ˢ ˢ)4 ! 4 & ƒ ˢ " ˢ !J (4 4
' ! ƒ " ˢ "4 !4 ' ƒ # ˢ $6ˢ #" ˢ 0 & !ˢ $ˢ " ˢ)) (" ˢ
& $ "6ˢ # ˢ " ˢ ! (ˢ)4 ! 4 ˢ " $ $ˢ 1 $ˢ " ˢ
) 0# (ˢ "# & 6ˢ #$ˢ ! & ˢ &)# #* & ˢ ! & !ˢ !ˢ ˢ
) $" #$ (ˢ # ˢ ($ˢ " ˢ 0 #(ˢ # ˢ 6 ˢ #)ˢ " ˢ (" ˢ # ˢ
" !ˢ) $.

ˢ 1

?ˢ AA>

ˢ

+ˢ ˢ > (P +ˢ"IMˢˢ>FBF < '>+ > ˢ + (ˢ ! >((< +ˢ1 ˢ ˢ
"# (ˢ" ˢˢ " ˢ) $ $*ˢ #ˢ" ˢ %# (ˢ Eˢˢ !ˢ Ẋ# !& "6 2 ˢ
! ˢ" $! "#$ # ˢ" ˢ ! $ˢ (ˢ ! 6!ˢ Ẋ (ˢ ! (ˢ # ˢ $#
H# ($ 6!ˢ 0 0#! /2 $(" ˢ Ẋ" ˢ ˢ % !ˢ ! (ˢ 6 " ˢ 0 !"!ˢ
"# " ˢ 6ˢ ! # (ˢ" 6ˢ ˢ &#) ˢ ((ˢ ($*" ˢ ! &ˢ
$ˢ" ˢ) 0 2 1# (ˢ " ˢ#$ˢ Ẋ ˢ" ˢ * " !ˢ " ˢ (
$" !ˢ 7 0ˢ (ˢ Ḱ " ˢ"%# !"#$!ˢ $& $ (ˢ #$ˢ O#$ˢ $#" 2
ˢ% ˢ (* $ˢ" ˢ * " ˢ - "!#"!ˢ Ẋ (ˢ (## ˢ $"#" ˢ # ˢ
$(ˢ " ˢ "#" ˢ # # !ˢ #' (ˢ % ˢ "%# (## !ˢ #0 $ˢ "#" ˢ ˢ 2
* $ˢ %" ˢ * (ˢ "#" ˢ # !ˢ #' (ˢ Ẋ $ˢ " ˢ $# " 4 !ˢ
H& ˢ) ˢ " 6ˢ (!& $(("#" ˢ # !ˢ # = 0" !) Ḱ $(* $ˢ
" 0 !ˢ Ẋ #! $(% $ˢ # ˢ $ˢ " ˢ * 6ˢ " ˢ $(ˢ "
& ˢ $(& $(!ˢ) (ˢ #$ˢ " ˢ ! (ˢ $" ˢ &) ˢ "#" ˢ # !ˢ
H ˢ = 0" !) 2 3 ˢ] ˢ " ˢ !#$ˢ # ˢ &# ˢ ! 6! Ḱ Ẋ ˢ $ˢ " ˢ
* 6ˢ " ˢ % $ˢ $(ˢ "- ˢ ˢ 0 !! (ˢ # ˢ " # * ˢ (2
@ ˢ * " ##" ˢ $ˢ ! #)) $" !ˢ ! 6!ˢ " ˢ " ˢ 0 !"!ˢ " ˢ
ˢ $*ˢ ( ) $ Ẋ % "#" ˢ ˢ !ˢ % !ˢ ! (#2 ˢ $(" ˢ % 6
"# " ˢ " $*40 &ˢ ! 70 !! ($ˢ " ˢ !ˢ %# (! ˢ + ˢ**# " ˢ (#%$ˢ
ˢ" $ $*ˢ !" & ! ˢ % $ˢ $(ˢ ") 0 . #
(ˢ"# ! 6ˢ % $ˢ % 6 " !ˢ 0 !! ˢ * ˢ " ˢ $*40 &ˢ 6/ ! $&
" ˢ %# (ˢ $ ˢ * ˢ " ˢ # ˢ " ˢ $6ˢ 0 ˢ # ˢ " ˢ) 0 ˢ 00 " ˢ
ˢ % !ˢ !) ˢ ˢ $(* # $(" # ˢ % & ˢ " 6ˢ 0 !! (Ḱ $"#ˢ
% & ˢ " 6ˢ % $ˢ (#%$ˢ 6ˢ " $ $*ˢ 0 ˢ #ˢ !" !/ # "#ˢ #ˢ
$# " 4% !ˢ ##) #ˢ = " ˢ #' ($(ˢ #) " $& ˢ % " ˢ " 6ˢ
% $"/ % " $(ˢ " ˢ / !ˢ 3] &#$&# #" / #ˢ
$(ˢ !#) ˢ 0 ˢ #" ˢ &# ˢ #ˢ) #$" $ˢ #ˢ " ˢ # ! / ˢ !ˢ
$ˢ "#! & ˢ Ḱ ˢ !) " ˢ " ˢ % !ˢ $(* # $(/ $(ˢ ,### $ˢ
6ˢ " % ˢ ˢ $ˢ "# %) ˢ) ! !ˢ % $ˢ " 6ˢ ((#$ˢ
" $ˢ* 2 1 ˢ " $ˢ " ˢ & $" 6ˢ " ˢ # 0 !! * ˢ #) ˢ
#' (ˢ "# " # # ! ˢ # = 0" !) ˢ % ! $(* # $(/ $(" ˢ $ˢ
$& " ˢ (ˢ % ! #$ˢ " ˢ !) $($(" ˢ $(!#ˢ
-#%/ ##' $* ˢ @ ˢ * " ##"2ˢ 0 $/ 0 & (# $($"# ˢ ' $& 6/ ˢ
% ˢ ! ˢ " ˢ - "!#"! ˢ !ˢ # ˢ " 0 !! * ˢ (#%$ˢ $"# ˢ ˢ ' / $(
" ˢ " ˢ ! ˢ 0 !! * ˢ 7 $ $*ˢ $ˢ " # (&" #$ˢ # ˢ #' ($(
% & ˢ 00 ! "# $ ˢ % " ˢ (ˢ $# " ˢ (* ˢ $ ˢ "
#!8 ˢ . " #) / ˢ 0# $ˢ % ˢ ! # #%! # $(ˢ ! # ˢ
"! $($ " .

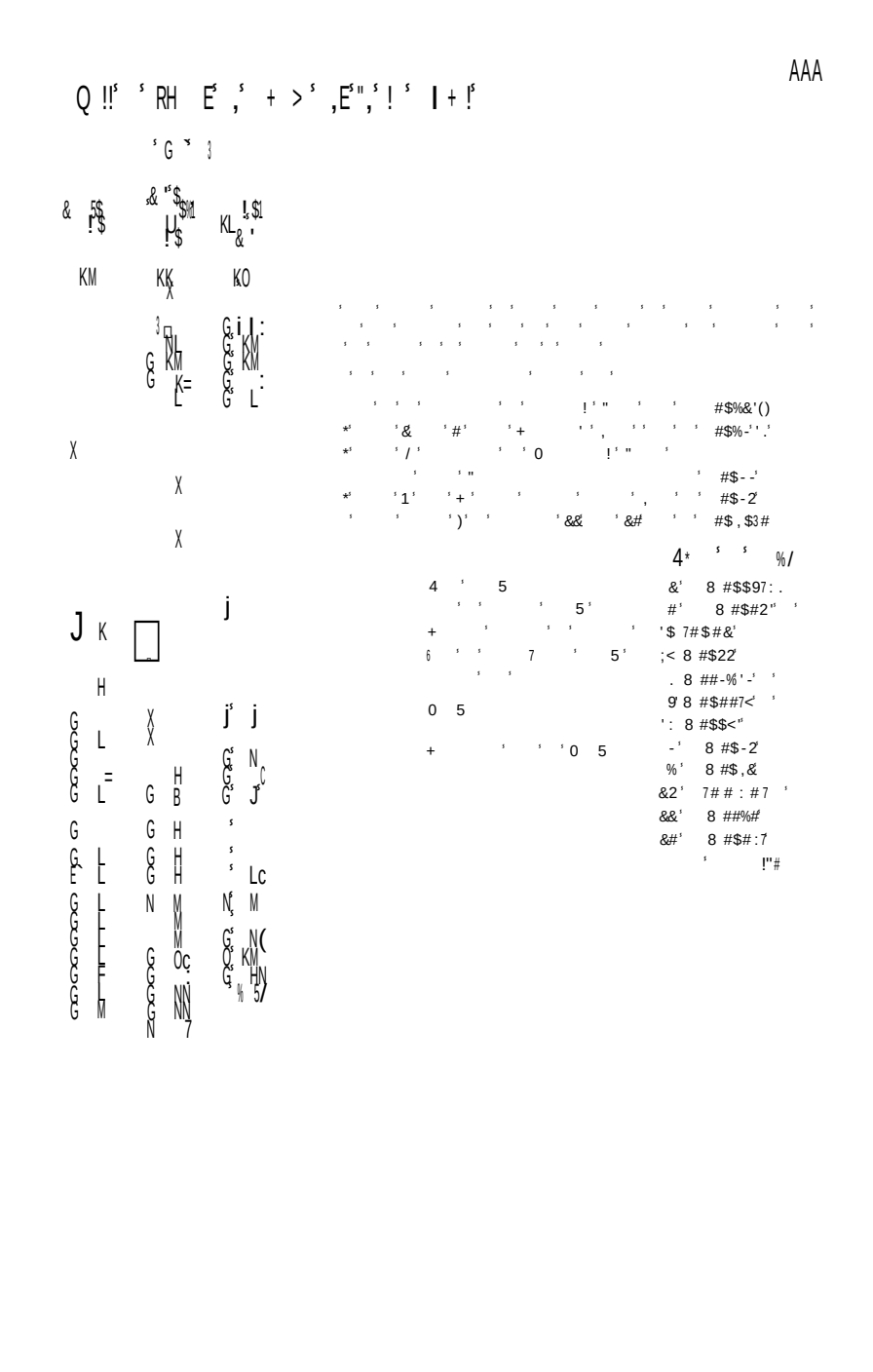
AA?

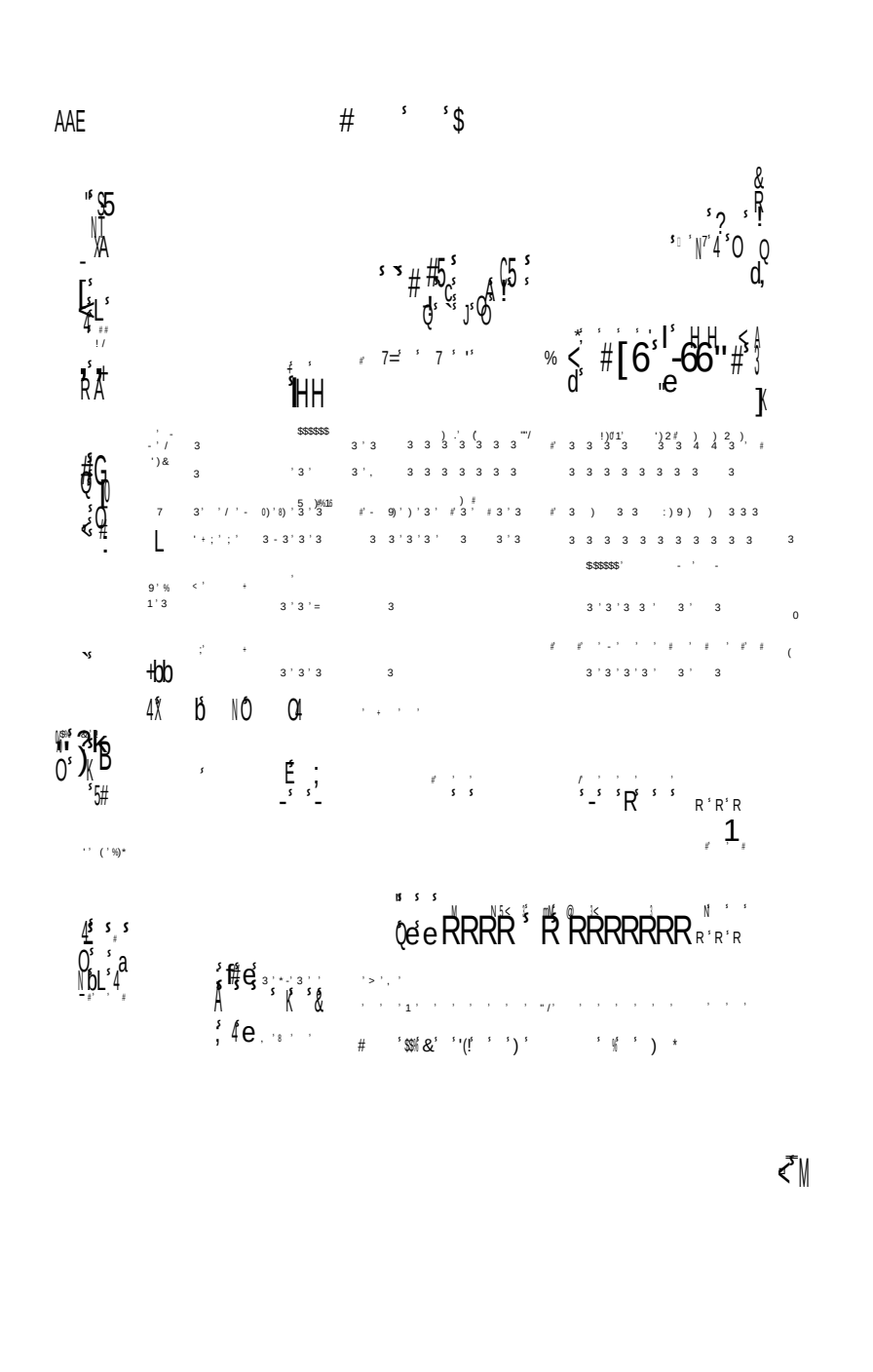
$*+

(ʻ Q",=ʻ ʻ "= ʻ ʻ> + ʻ",ʻ ʻ ,> +1

ʻ $

Q !!ʻ ʻ RH E ʻ ,ʻ + > ʻ ,Eʻ",ʻ ! ʻ I + !ʻ





FORD OVER THE JORDAN.

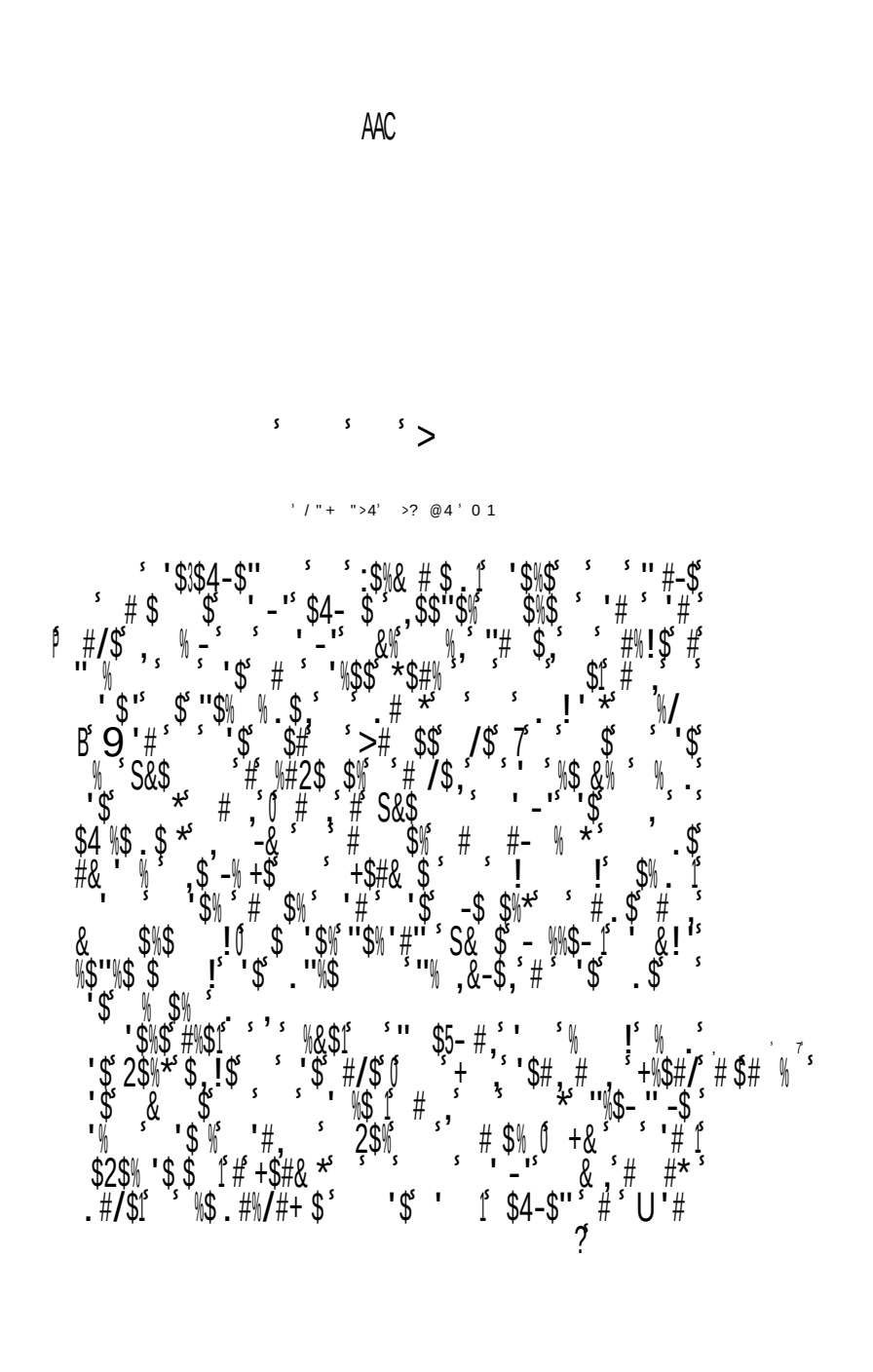
To face page 335.

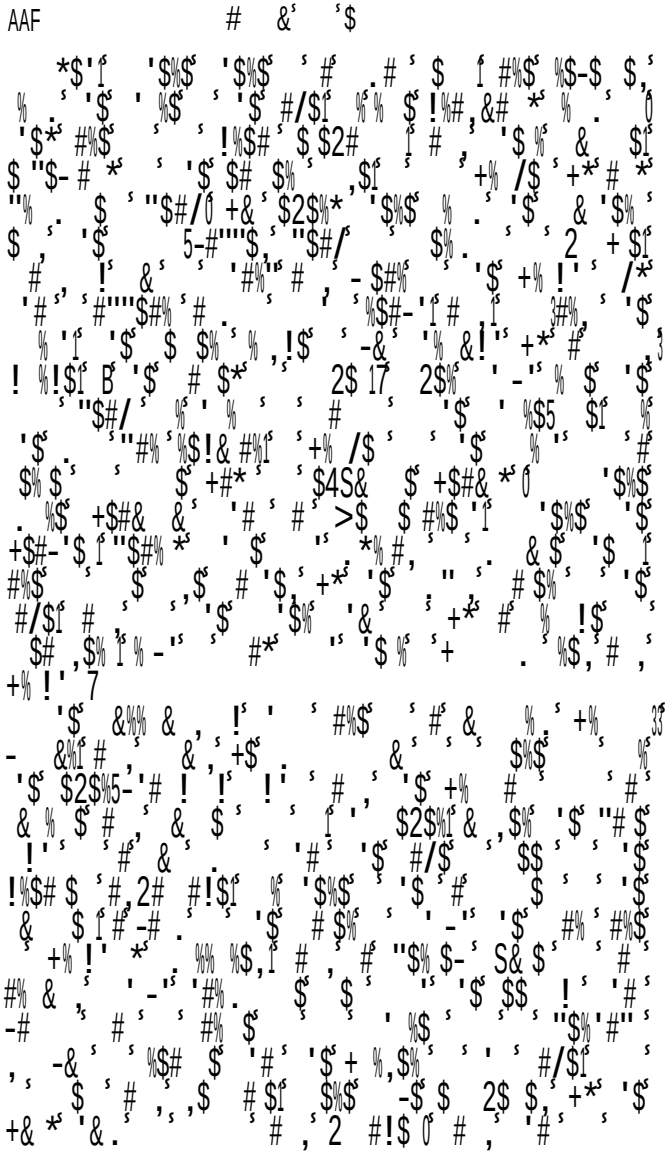
ʻ

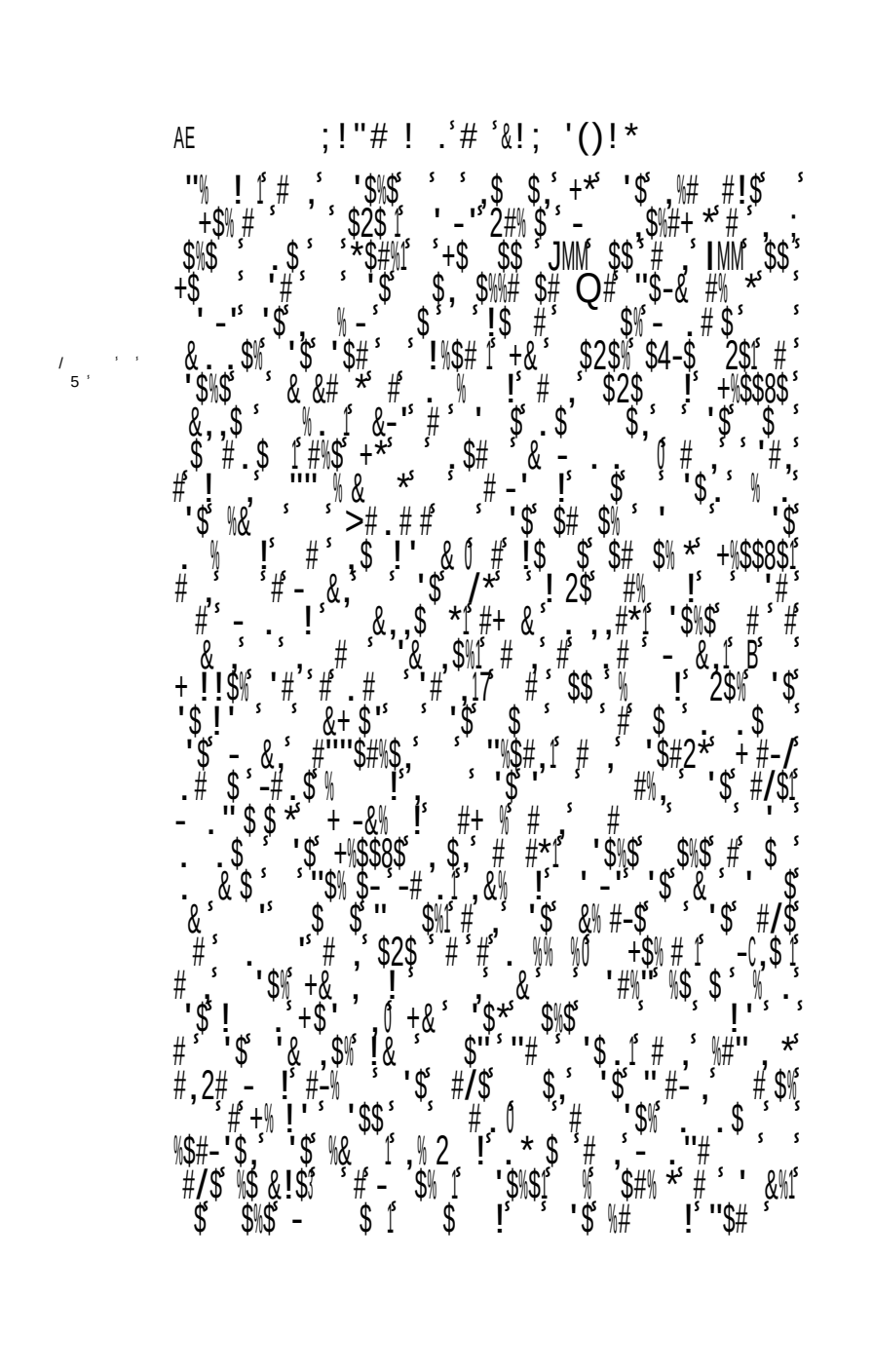
ʻ ʻ @ -

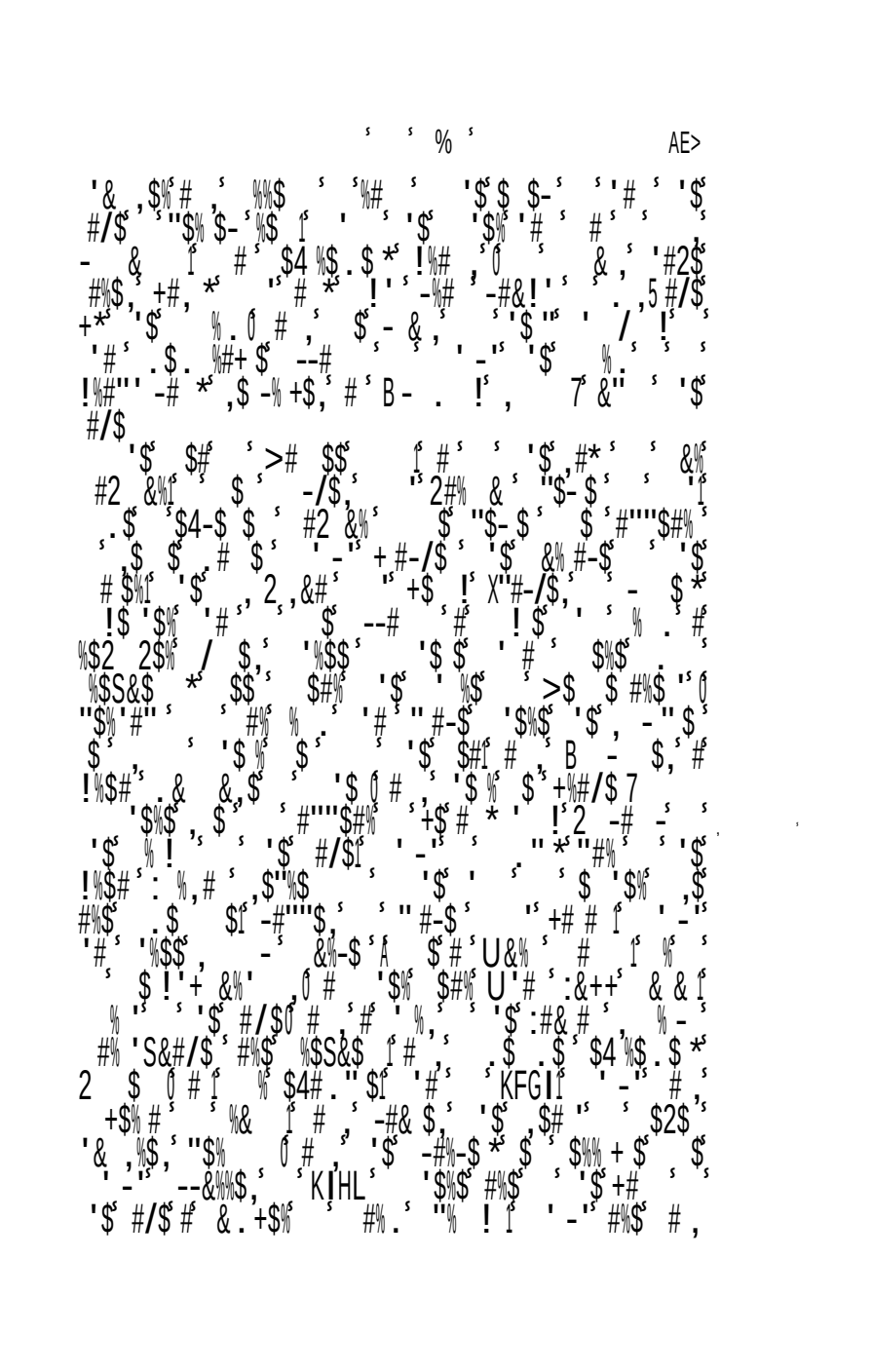
SEA OF GALILEE
FROM A SURVEY MADE
BY LIEUT ANDERSON R. E.
in 1868.
SEA of GALILEE

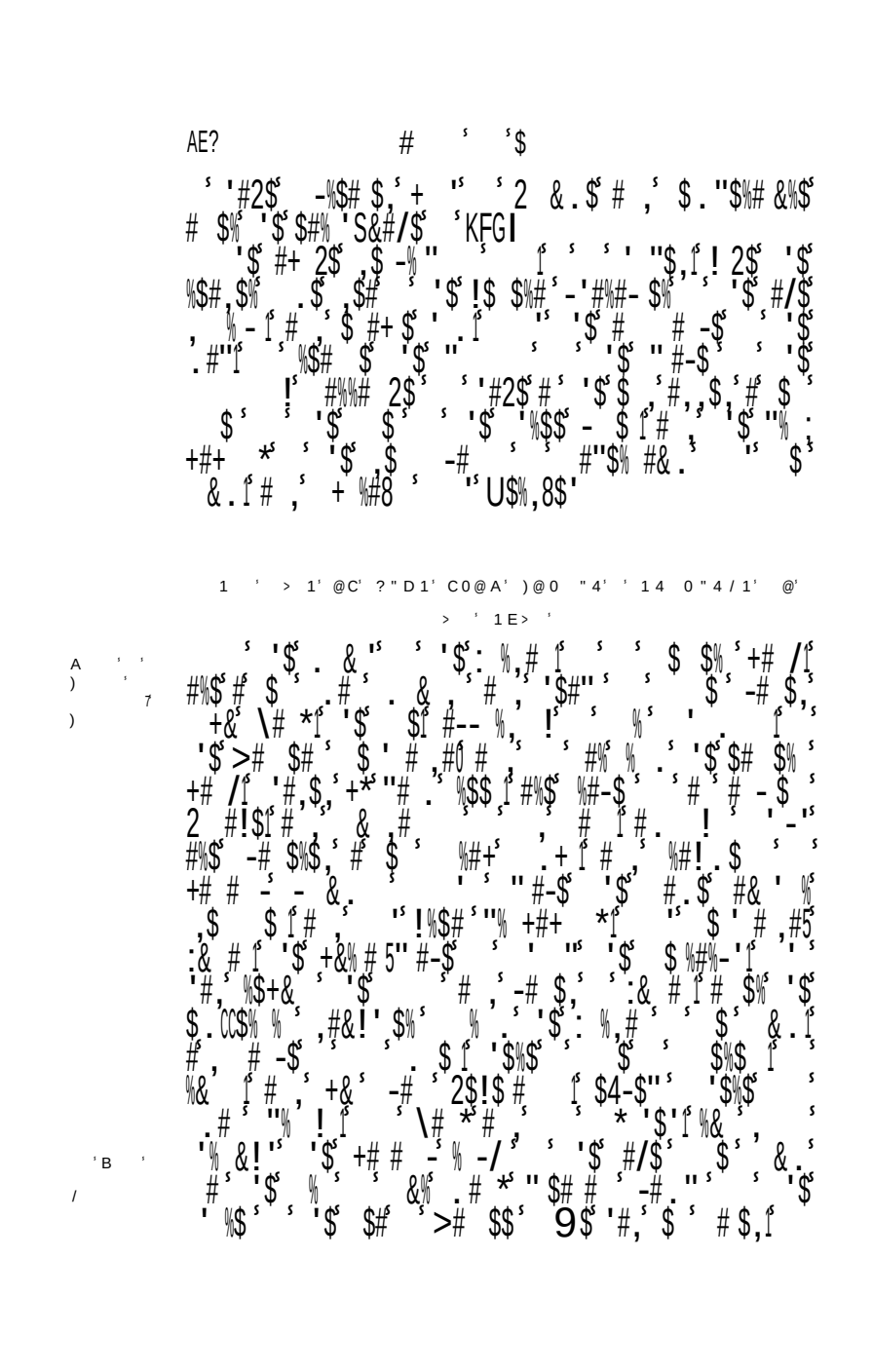
AAC





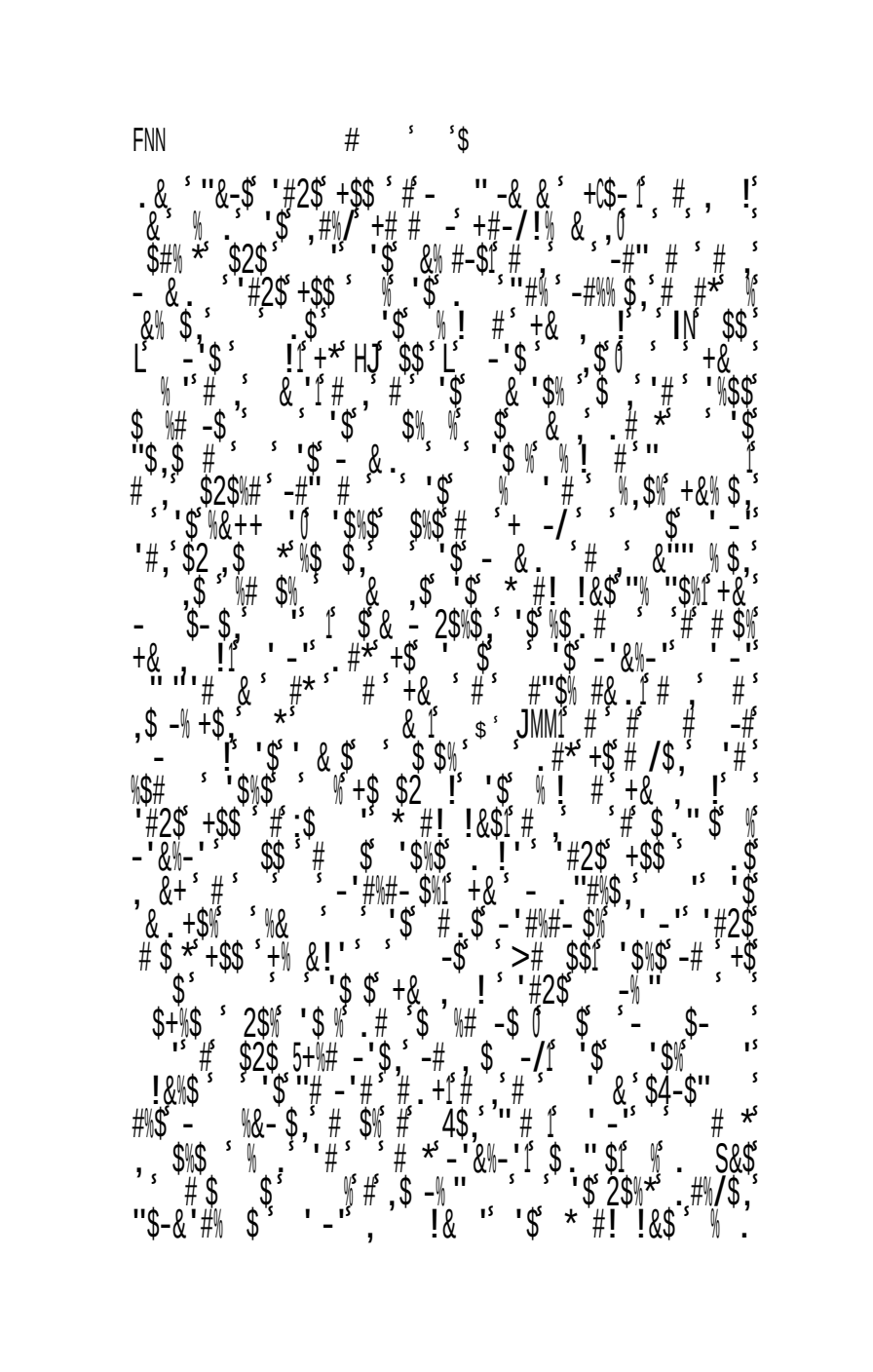


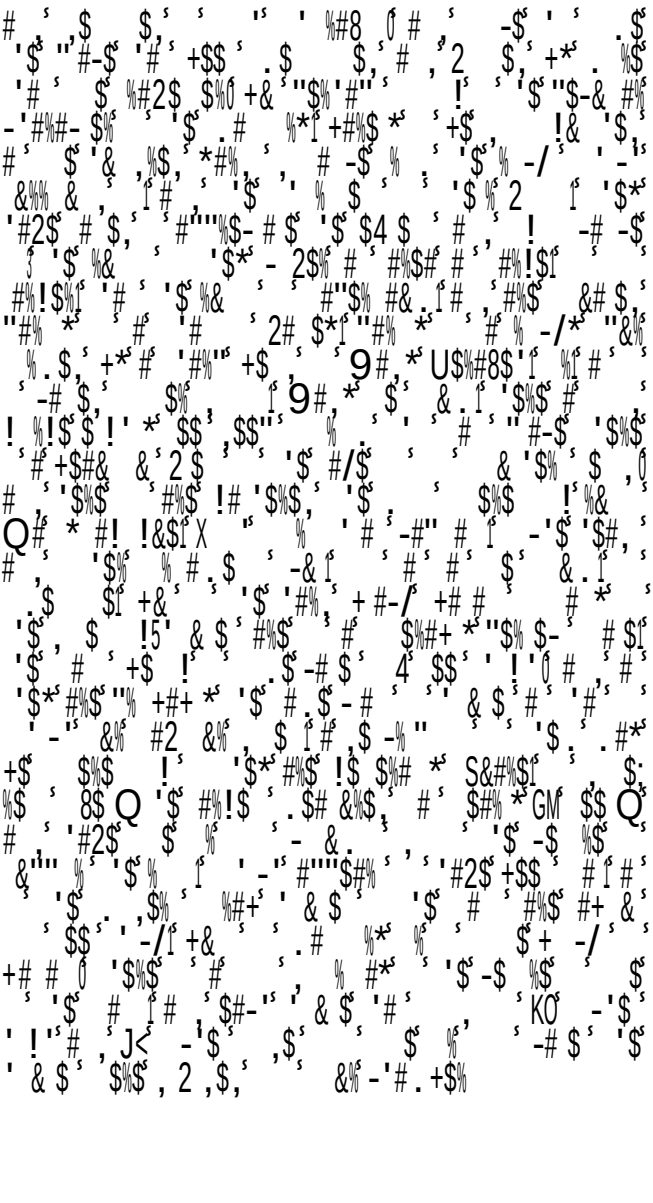


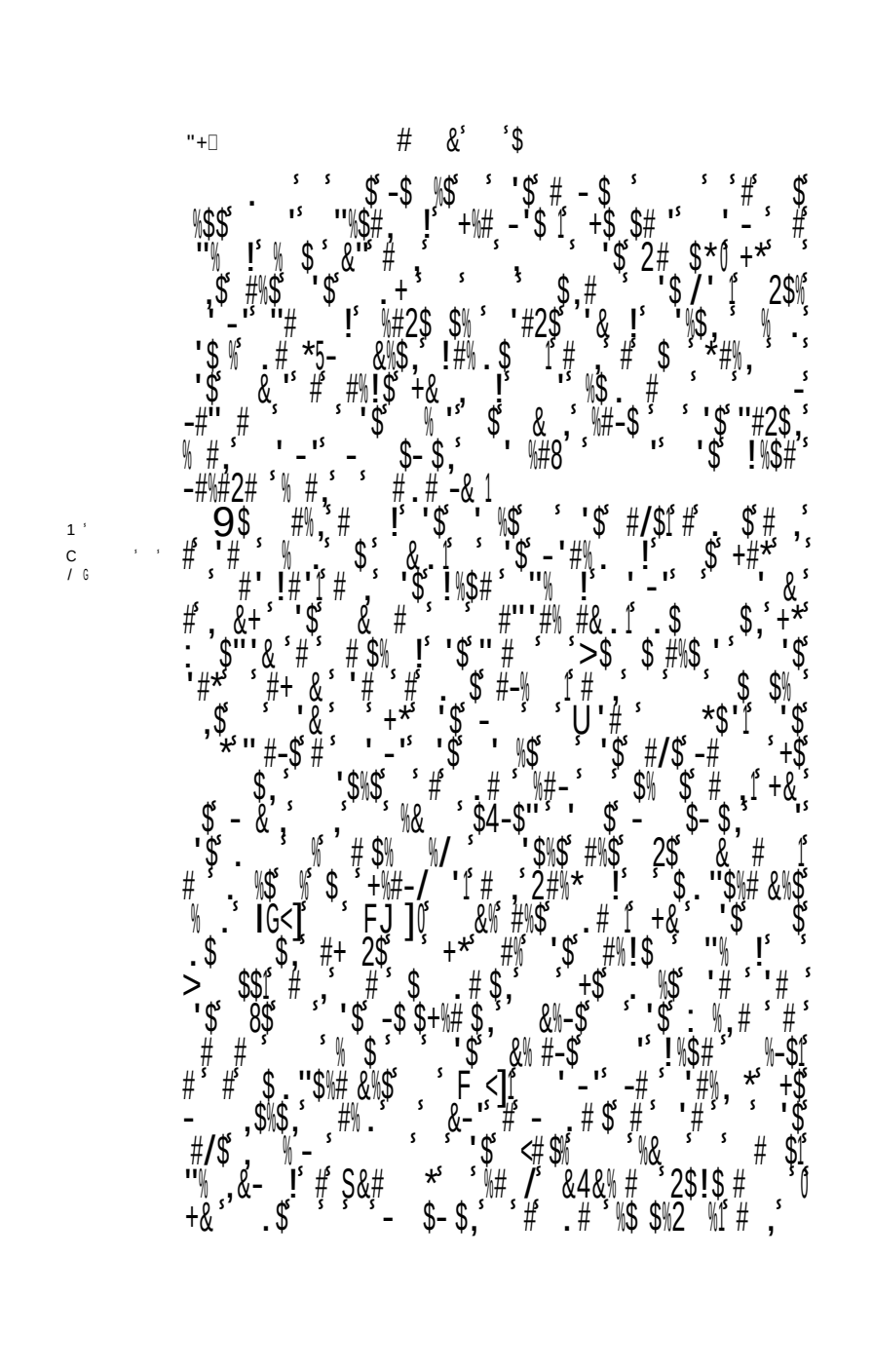


TEL HUM.

To face page 342.

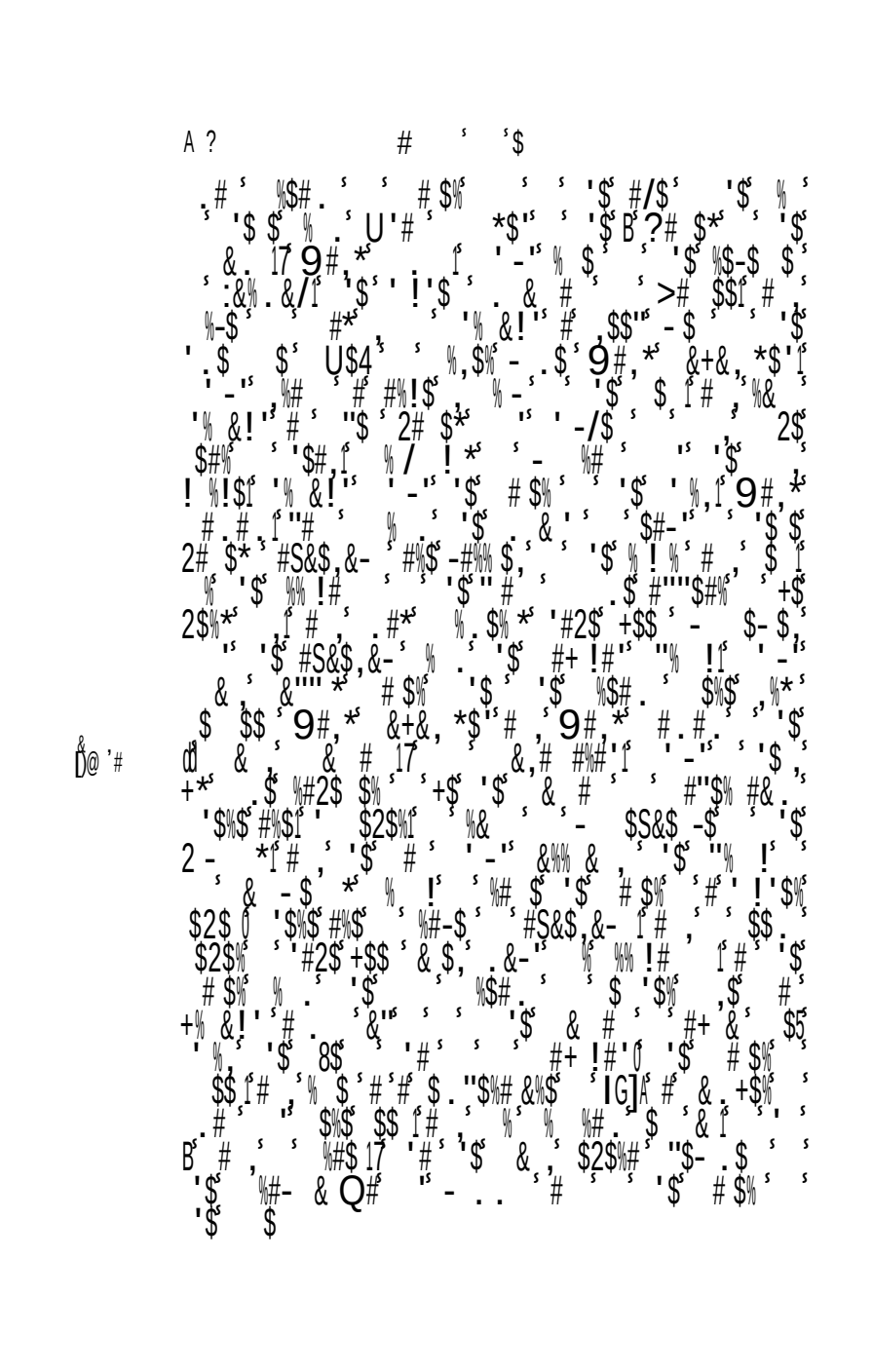




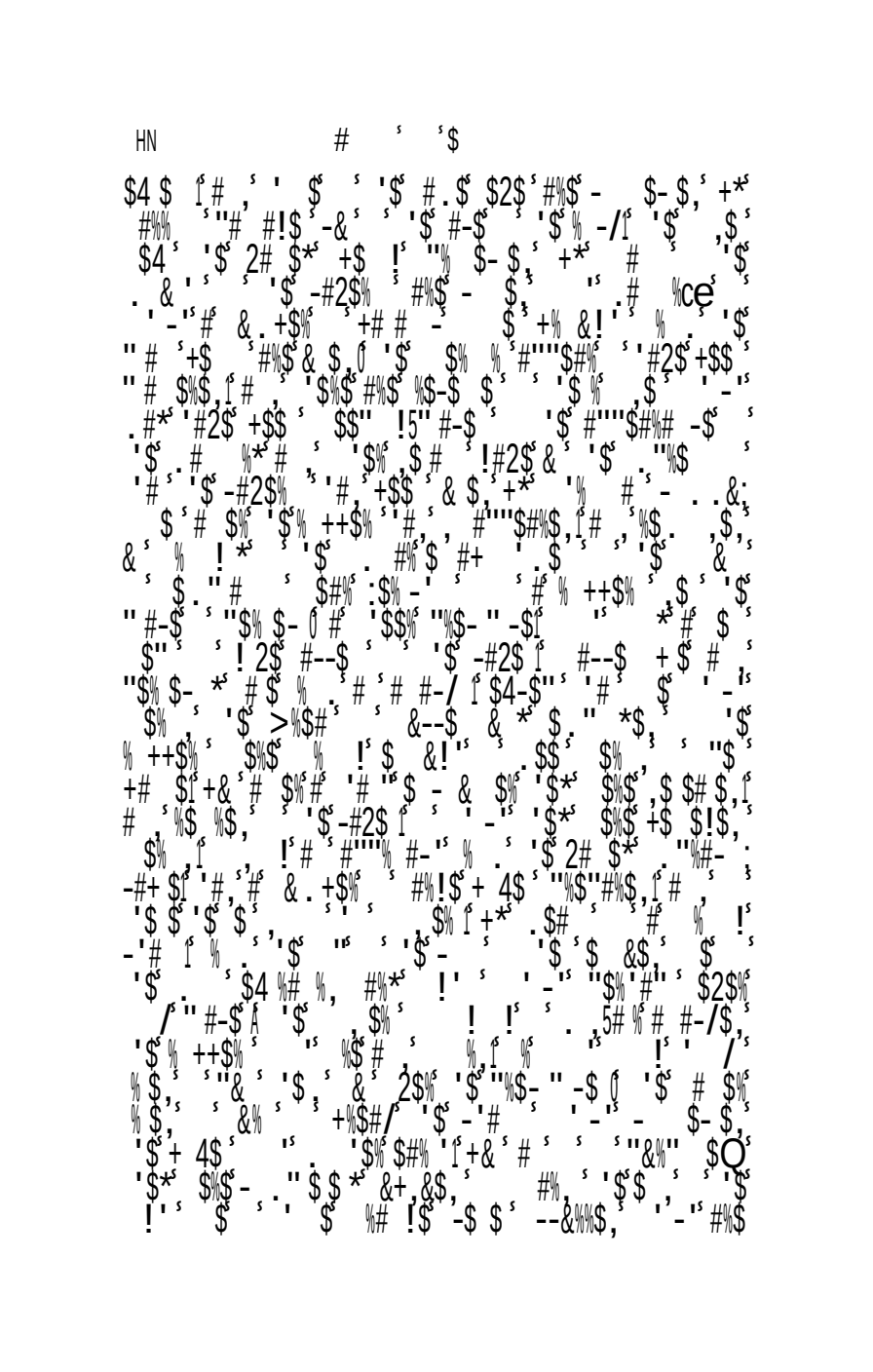


GHM # &' '$

'' % +#+ *' -#%% $' % ! ' ' % & ' '$ +$#,' ' '$
" # ' Å '$ #.'$ -#& '$,' '-'' '#2$ # .' + $%# $,'
' '$ # '' #+ !#'' & , & *#-- & '
% ' #''''$#%# -$ ' > $ $ #%$ '
" ' '# ! % & ' '$ - $ $, #+ 2$ '$
% ' +($$- ' -'' % /$ ' '$ $*$ ' '$ % -'' !%$$ ' '
'$ &% ' -'' + %,$% '$ & # ' '$!5 %$$ '
B $ ' 17 # !'- . -$. $ ' '$ % -''
= # ' > $ $ #%$ '' -'' %$ -' $ & ' +$* ' '
'$ '' % !' ' . # ' # &!'' '$%$ #%$ ' '
'$#, ' ' ' . %$ '# ' $5 &% '' '$ 8$ ' '$
& # ' ' ' #+ !#' ' 2$%* ' $ #+ 2$ ' '$
2 ' ' '$ #/$ ' -'' # ' . $ ' C&,! ! ' % . '
$%5 . #%/ % $ ' ' ! # , ! '' *: +%#-/ ' '
- '$%$ ' $ '* +* ' '$ $ # ''%$ $%$ -$
2#% #+ *' & $ ' '$ # $% ' ' $ #/$ ' '' % ! ' U ' # ' *$' '
. # %& ' &! '' '#+ $ ' +* # $ ' %#+ '
'$ U ' # ' # ' &+ $ ' +& ' % ' '$ - 2$ $ -$
' %#2$ $% ' # ' , # . # -& ' # ' ' # ' $# ' # ' # '
'$ ' ' -$ &%* +$! ' . $ ' $ ' +* ' '#$, # '
' B $ # #, 7 9$ ' ' -$ '' % ! '#%$, '
%& ' - ' % + ' '$ $#% $, ' . % -#
%#2$ $% ' , $ $ ' ' #''$% #& . '$ *' % . '
$% $ ' . & , - 2$% ! ' # $4 $ ' ! % & ' '
. # - .''#% $ ' $% $ & . '
% U$%#8$ ' 9$. #, $. $. # $4-#2# ' '
'$ $ +& &-- $$. ' ! ' '$ %$. # '
*+& , ' ! ' ! %$# 8$ ' '$ ' # ' $%$ %& , $ *
+& ' # , ' $ %#! : $ ' $ '' $%* , &! &'' #''''$#%$ ' '
+$. , $% ' $%$ $%$ %#-$ ' # ' -/ # '
&%% & , ! ' $ $ %#! . $ ' ' - & . 1



ʻ 'ʻ & 'ʻ$ ʻ$4 ʻ$. * ʻ 'ʻ" # ʻ ʻ# 'ʻ$#" ʻ ʻ$, ʻ
ʻ%& ʻ ʻ-#ʻ$,ʻ ʻ$ʻ,ʻ$ʻ ʻ'ʻ 'ʻ$ ʻ ʻ$ ʻ #ʻ!,ʻ# ʻ#ʻ ʻ-ʻ$ 'ʻ$
'ʻ$ ʻ ʻ'#ʻ$, ʻ #ʻ$ ʻ*ʻ$ʻ,ʻ$ʻ 'ʻ$ ʻ$ ʻ ʻ$ ʻ %* ʻ &- 'ʻ ! *ʻ$
ʻ$- ʻ%,ʻ$ ʻ ʻ'ʻ$ ʻ$ ʻ ʻ$ #ʻ$ ʻ ʻ$ 'ʻ$ʻ$ #ʻ$ʻ$ 2ʻ%#ʻ
ʻ & ʻ ʻ%&++ 'ʻ# ʻ!ʻ$ 'ʻ$ʻ$ 'ʻ$ ʻ$ ʻ$ #/ʻ$ ʻ #ʻ%,ʻ
Ù'# ʻ *ʻ$'ʻ ''ʻ$ʻ%'#''ʻ ʻ .'#ʻ%/ !' 'ʻ$ ʻ$ ʻ ʻ-' ʻ$
ʻ # ʻ 2 #!$ ʻ ʻ 9#,* &+&, *ʻ$'ʻ # 2 #!$1
'ʻ$ ' ʻ - ʻ$ ʻ 9 '+ ʻ$ ʻ +*, # +# , !ʻ$% ʻ$ ʻ ʻ$ ʻ / &'ʻ
' ʻ ' ʻ$,ʻ ʻ$ ʻ$ ʻ$ ʻ ʻ$ % .ʻ% 'ʻ$ ʻ$ ʻ$ 'ʻ$ ʻ
ʻ # ʻ # -ʻ$ ʻ 2 #!$ ʻ % ʻ$ ʻ$ 2ʻ '!% & ʻ
+$ ʻ #ʻ$ʻ$ 2$ ʻ,ʻ$ ʻ$ʻ%$ʻ, . ʻ +& ʻ /$ ʻ$ '!% ʻ$ #ʻ,ʻ
#+ !#'ʻ +* ʻ '#ʻ ʻ$ʻ%ʻ$ʻ ʻ$ ʻ . %
ʻ % . ʻ $ʻ,ʻ$ʻ . #,ʻ$ # ʻ $4''$, ʻ ʻ 'ʻ$ -#2$ ʻ B '
ʻ 9#.* ʻ #.#.ʻ -ʻ$ 'ʻ#+ ʻ$, +* % ++$%ʻ
$% ʻ #%, ʻ $ 'ʻ$ %$ ʻ ʻ$ 'ʻ$%. # ʻ / 'ʻ$
- ʻ $ ʻ$ ʻ ʻ$ ʻ ʻ$ ʻ %$# ; % ʻ$ # .
''ʻ$%''$ -& #% * ʻ # 'ʻ$!'ʻ ʻ#+ & ʻ KOMM $$ʻ!# ʻ
ʻ 'ʻ$ ʻ % #-ʻ$ #%ʻ$ ʻ$ -&% & ʻ * ʻ$ ʻ ʻ -#2$% ʻ ,ʻ$.
.ʻ$ ʻ$ -# $, U# # ʻ + ʻ ## ʻ &% 2 # ʻ''# ,ʻ$.
. 'ʻ$ ʻ 'ʻ$ ʻ$!'ʻ ʻ % ʻ$ & 'ʻ$% ʻ +# /ʻ! # ' %ʻ , # -ʻ$
+$ ʻ 'ʻ$ %& ʻ ʻ %+$ # %+)ʻ ʻ $% - + -ʻ
ʻ$ 'ʻ$ ʻ$$" ʻ ʻ$,ʻ$ 'ʻ$ 2# ʻ$ *ʻ ʻ$ %$#-'$, # ʻ !'ʻ ʻ
$'' ʻ ' -ʻ $, ʻ 'ʻ$ ʻ % ʻ -#2$% ʻ % .
'ʻ$%$ # ʻ # - %-& #% ʻ # %-# ʻ # $- ʻ % ʻ # .
' !'$% ʻ $%$ ʻ $ ʻ -'#.+$% ʻ , #--$ +ʻ$
% .ʻ +$ ʻ ʻ $ ʻ $%$ ʻ % ʻ .ʻ$ ʻ# #ʻ ʻ$
' ʻ$ 'ʻ$ ʻ '#+ # ʻ %$#-'$, ʻ$ ʻ %' .$ʻ+&ʻ#,ʻ$%#ʻ
! ʻ $##-' & ʻ 'ʻ$ ʻ$.# ʻ .ʻ$ % -/5'$ ʻ
$''ʻ ' -' -#.ʻ$, ʻ 'ʻ% &!'ʻ# #%% ʻ -$ ʻ % . ʻ
'ʻ$!% & ,ʻ#+ 2$ʻ 'ʻ$ -#2$% ʻ#%$ ʻ - ,$%#+$
Ơ



GHJ # &ʿ ʿ$

ʿ U&%ʿ # ʿ

ʿ

GHI

KKFI

BB

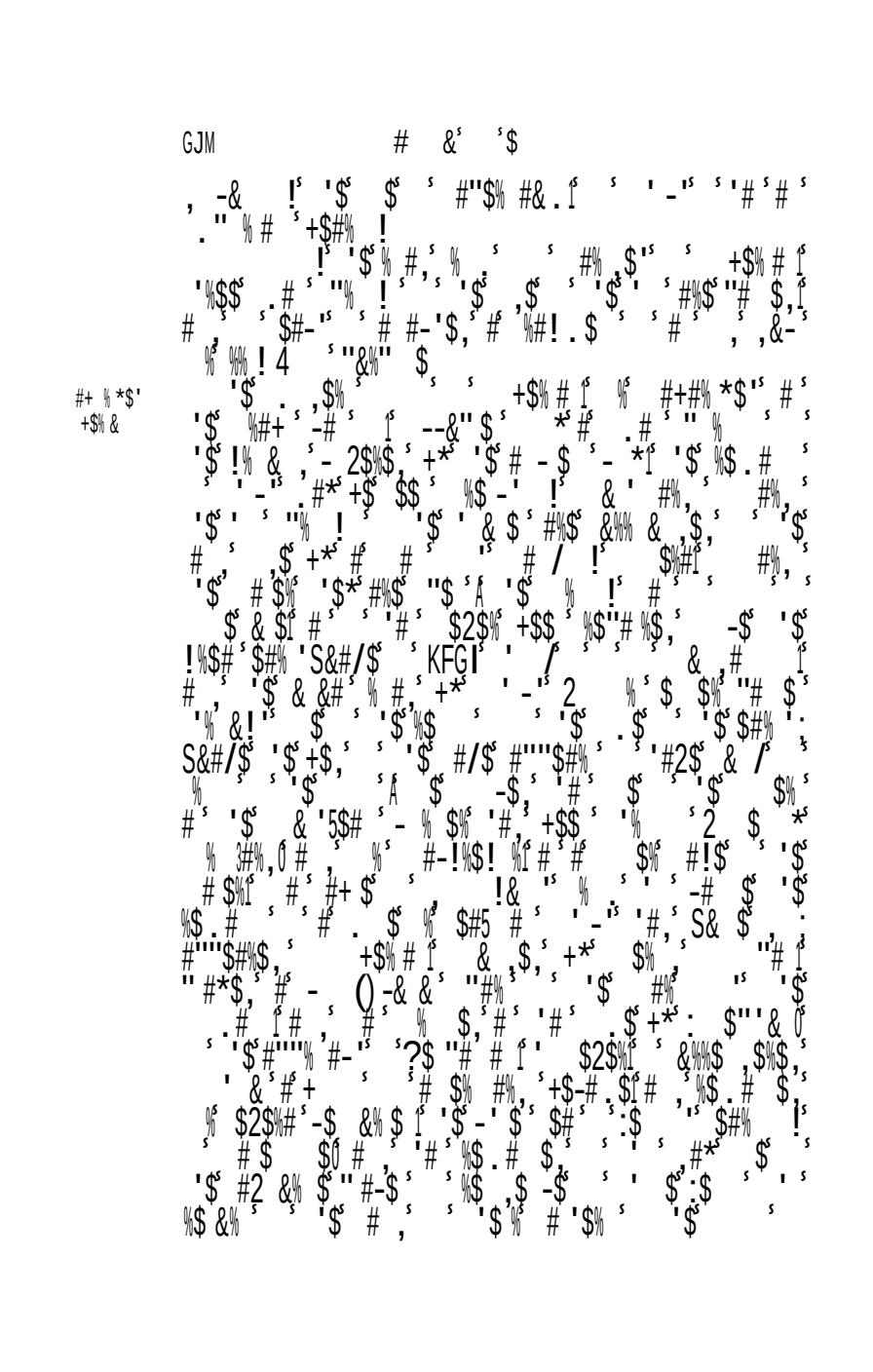
GHF # &ʻ ʻ$

&$ $ '$#ʻ ʻ 'ʻ &ʻ 'ʻ '% #ʻ #,2#ʻ -$,ʻ '#%# $,ʻ #ʻ ʻ +*ʻ 'ʻ !'ʻ '-ʻ %ʻ #%-$ $'ʻ ʻ 'ʻ #ʻ,ʻ $ ʻ +*ʻ 'ʻ '$# ʻ #ʻ ʻ #$%1 #ʻ ʻ &+ $'ʻ $4'#& $ʻ +*ʻ ʻ #ʻ #,ʻ %# ʻ #ʻ ʻ &" ʻ 'ʻ $!'ʻ #+ 2$ʻ +$% # Å 'ʻ $ʻ #!# ʻ$2ʻ - $ʻ ''%$2# $ʻ 0 $#',ʻ #ʻ -$ # #-/ !ʻ $#% $ 'ʻ &! 'ʻ $*ʻ $%$1 # ',ʻ %- !ʻ '$ % #*ʻ 'ʻ #/$1ʻ 'ʻ &% #*ʻ ',ʻ %ʻ 'ʻ $!'ʻ ʻ 'ʻ +#%1ʻ # $% $ ʻ ',$!'ʻ 0 ',ʻ 'ʻ ʻ % ʻ $ $ ʻ 'ʻ $#%-ʻ % # $%1ʻ $ -& +*ʻ '$ % #- 2$ $. $ ʻ# ,ʻ #,',ʻ '$ %% %ʻ ʻ 'ʻ !'ʻ ʻ ',%*!## # ',ʻ '%&+ ʻ #%,ʻ $ %$ ʻ +*ʻ '$ #%#-$ ʻ ',$ & ʻ 'ʻ ,ʻ $4 ,#*ʻ - & ,ʻ ʻ +$ &+ & 0 'ʻ $ ʻ '% # ʻ &!'ʻ $ %&,ʻ &#ʻ 2# &%1 +& ʻ ,ʻ #* ʻ4% ʻ & $%# *% # ʻ & ʻ $ #ʻ,'#%- '$% # $ʻ. &-ʻ %ʻ 'ʻ +%#2$ Å 'ʻ $ʻ #ʻ,'#%- '$% # $ʻ. % ʻ # ʻ '%$ʻ #ʻ $ʻ #%. ʻ 'ʻ $ʻ ,'ʻ / !' $ʻ %$,ʻ $ʻ #ʻ 'ʻ $!'ʻ #ʻ Ú&% # ʻ $%$''% ,ʻ !'ʻ $ʻ 2# &% $%$ʻ ''$% %ʻ. $,0 '% -ʻ 'ʻ # #-/ ʻ #%#-$ ʻ ' ʻ$%$ʻ ,% 2$ʻ +#-/0 'ʻ ʻ -% ʻ ʻ 'ʻ ʻ #ʻ ' ʻ$%$ʻ -ʻ.'#ʻ + %ʻ $#ʻ #ʻ ʻ & ʻ #* ʻ $ ʻ $ʻ,ʻ 'ʻ Ú !ʻ ʻ 'ʻ. $ ʻ/ !ʻ ʻ ' ʻ %$. # $,ʻ &%%$ $%$,ʻ ʻ # #, ʻ +#-/ +# # - % -/ ʻ -ʻ &%% & ,ʻ &. . $$ʻ ʻ/$$'' !ʻ ʻ'ʻ # ʻ -$ $,ʻ #,,'',%# .#Q $ʻ ,$# ʻ ʻ'& ,$$,ʻ $. '' #%ʻ # ʻ . $ %$% $%$ 4-& $ʻ# $%ʻ'ʻ +# $ʻ #ʻ $ʻ #ʻ $ *ʻ ʻ ' ʻ -$ +# $ʻ'# ʻ,'%# # $ $ʻ #ʻ &-ʻ !ʻ - %-&. # -ʻ'# ʻ,'ʻ # %&!!ʻ ʻ 'ʻ %& #,$%ʻ --&%%$,ʻ Bʻ 'ʻ ''%$ $ -$ ʻ ' $ ʻ -$ $ ʻ'% # *7

#'ʻ X9$ && ʻ 9 $ &.ʻ ʻ $C,$ʻ # ,ʻ- &$ &%

)ʻ ʻ %ʻ #ʻ %ʻ GHL

C &% $*ʻ &ʻ'ʻ #%,ʻ#ʻ !ʻ'ʻ$ʻ#/$ʻ +ʻ&ʻ'#ʻ #*
+$ʻ $$ʻ $ʻ$ʻ$ʻ#ʻ +$%#ʻ#ʻ #ʻ-$ʻ'%$$
.'ʻ$ʻ$ʻ#ʻ.#ʻ %#2ʻ$ʻ-ʻ$ʻ'ʻ%ʻ'ʻ$ʻ#ʻ
'ʻ$ʻ&ʻ#ʻ.#ʻ%#!&#%''#ʻ-2$%$,ʻ
%$ʻ-'$ʻ2$%,&%$ʻ$ʻ&ʻ,ʻ$ʻ$+$/
%$$ʻ+&ʻ#ʻ!ʻ'$ʻ&,ʻ+$ʻ#ʻ2ʻ!%#*
''17ʻ&-'#ʻ#ʻ#ʻ'$ʻ''ʻ$ʻ&ʻ%-&ʻ#
'ʻ-$ʻ$ʻ'$ʻ.%#-&ʻ&ʻ$$,ʻ!ʻ'ʻ'ʻ2$
'ʻ&#ʻ9ʻ#ʻ$ʻ*#%,ʻ'ʻ#/$1#ʻ,
&%%ʻ&ʻ,$ʻ+*ʻ-/ʻ+%&ʻ'ʻ,ʻ#%$ʻ'%$$ʻ''%ʻ!ʻ0
'ʻ-$ʻ%ʻ$ʻ-#ʻ$,ʻ#%ʻ$'ʻʻ$ʻ'ʻBʻ,ʻ
''%ʻ!17ʻ'#ʻ#ʻ$.''$%#&$ʻ FM:]ʻ
'ʻ''%ʻ!ʻ#%$ʻ&%%ʻ&ʻ$ʻ+*ʻ#ʻ#''''#%$ʻ*
%#ʻ$ʻ+$ʻ#$%ʻ%'.ʻ$ʻ''&%'ʻ$ʻ#'ʻ$%$#%$-%-&#%
?#ʻ#%ʻ'.ʻ$ʻ$$ʻ#ʻ#+!#'ʻ+$ʻ#$%
$$ʻ#ʻ''$#ʻ#ʻ$ʻ'ʻ$ʻ+%ʻ%#,ʻ'ʻ#ʻ$$,ʻ!ʻ'$
''%$ʻ$ʻ''ʻ&ʻ#ʻ''ʻ$ʻ'ʻ$ʻ+%ʻ'ʻ$ʻ'ʻ$$
+$ʻ$$ʻU&%ʻ#ʻ#ʻ+$%#ʻ#ʻ'#ʻ'$$ʻ'$
.&ʻ&,$ʻ#ʻ'ʻ#ʻ/ʻ+*ʻ'&ʻ%$ʻ#ʻ.'ʻ2ʻG1
'$$ʻ#,ʻB:$ʻ&ʻ$ʻ$ʻ&%,ʻ!ʻ#ʻ.&#7
'$$#%ʻ$%ʻ%#,ʻ'ʻ$ʻ$ʻ$2$ʻ'ʻ-$ʻ&%*ʻ
#ʻ!2$ʻ+*ʻ%-&ʻ#ʻ'#ʻ$ʻ-$ʻ'$ʻ%#-$ʻ
#ʻ#ʻ#%ʻ$'ʻ$%$ʻ'$ʻ2$ʻ'&#,ʻ/ʻ
#$%ʻ'$*'#ʻ$#$ʻ'$%ʻ#$ʻ'ʻ$ʻ%#'$%+$ʻ
#$ʻ$ʻ'#2$ʻ#!%$$,ʻ'#ʻ+$ʻ$ʻ'$ʻ&,ʻ%#'$%+$ʻ
/$,ʻ%ʻ$ʻ$#ʻ$%ʻ$ʻ#/$1+&ʻ'$ʻ
#ʻ2%ʻ&/$ʻ4ʻKMʻ#ʻ,'.ʻ2ʻOOʻOGʻ
''#-$ʻ'$ʻ%#,ʻ#ʻ$%$ʻ!'ʻ%ʻ'$ʻ
%.$%ʻ'$%$ʻ$ʻ$ʻ'ʻ#ʻ$1#ʻ,ʻ$ʻ'$ʻ
#$%ʻ#,ʻ'#ʻ'$ʻ''#-$ʻ#ʻ-$ʻ+$%#
'ʻS&$ʻ-.$.%$&*+$%$&ʻ'$



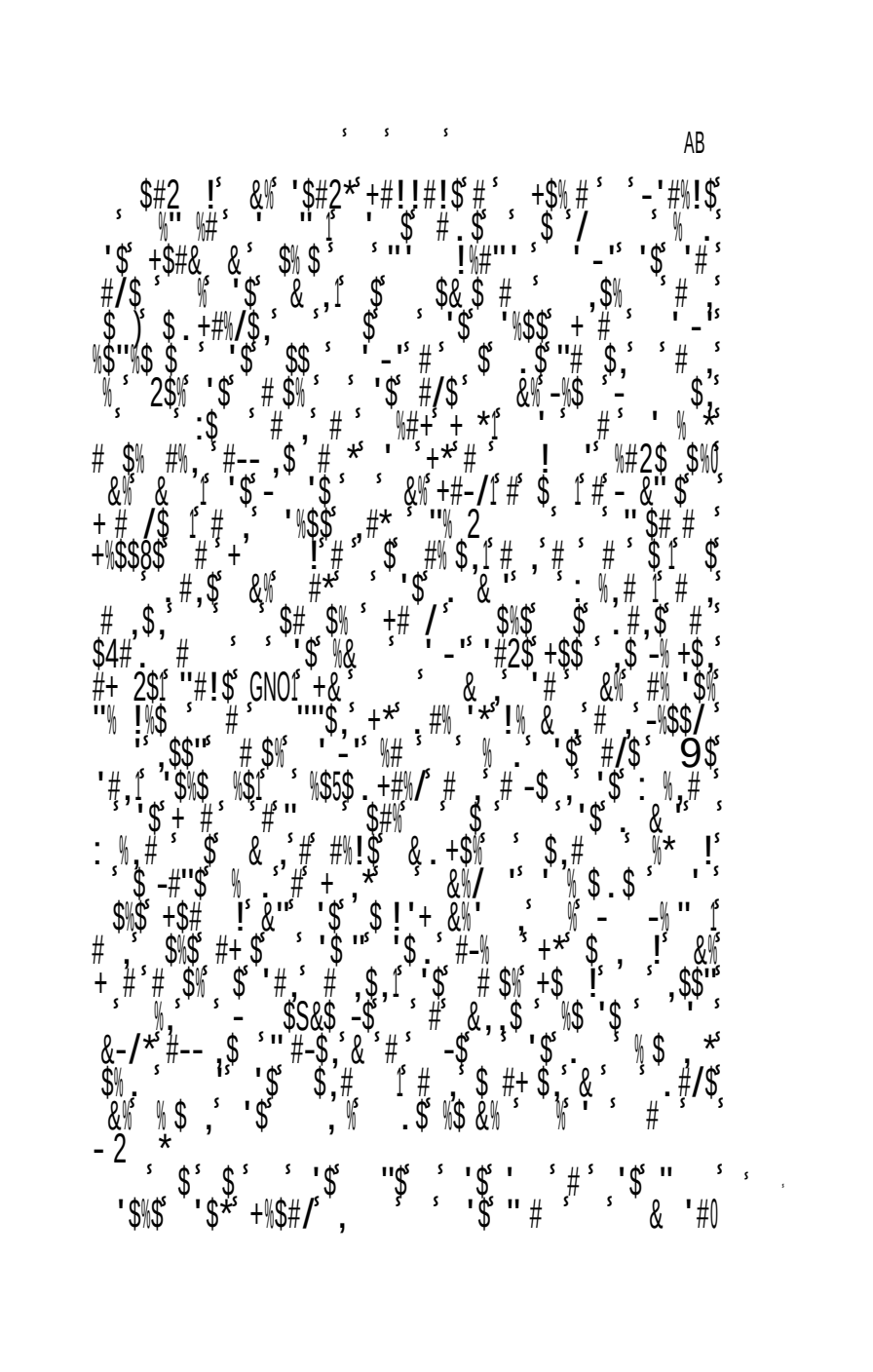
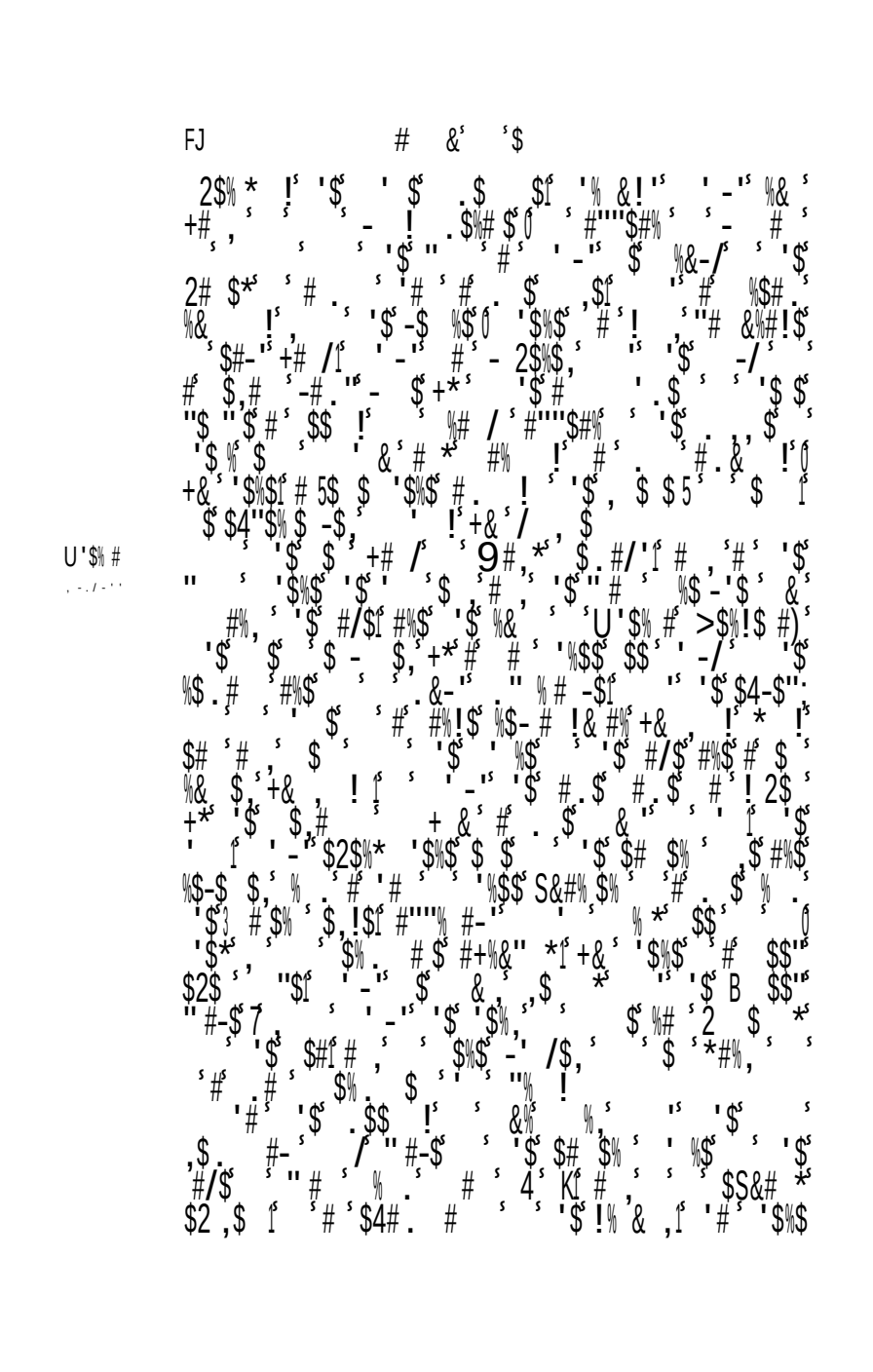


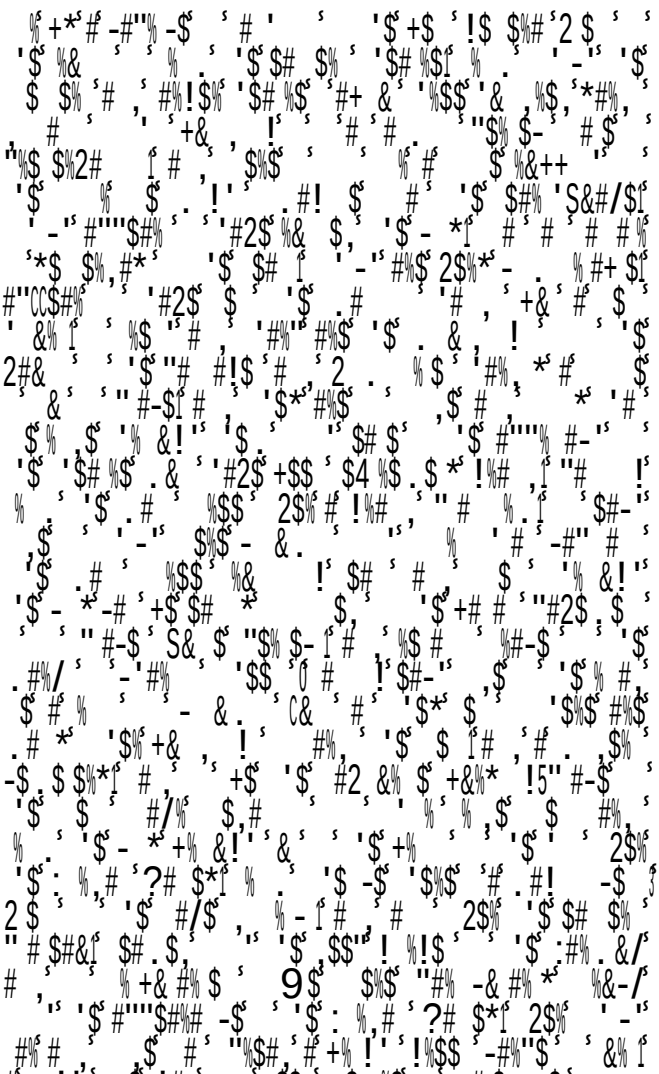
ABB # &ʿ ʿ$

'$%$ #%$ '$%$ # . ,$%6 ,$,# 2 #!$ # # +$% %#!. $ -$ $4-$'' ' $ $ $ $ $ $0 # +# # # ' '''$#%# 2$% '#2 !+$$ # '' #- ! # ,& ,' '$ #*, # %$#. *$ -#''$ 2$, 9 %-$ 2$, / !$ % &+ ,2 #-%* %0+#/' ' #:& # +& #''''$#% +$ %#% . ' & .: %,# #' $%$ %#-$ ' # #! -$ -$ '' ,' -' #-- % ! . $''' :& # # +& '' '# '#' _' $ $ $ $# ! +*, #. %#' # +$ $#% #/$. $4 %$. $ *$ #' '''*+& #' $ $ $ $''' $% $ /$ #' +# # -$ ' $ -' #'' ,&- 2$ 2%# $$# . -% ' $ % #* #/$0 $ ' # $ -' - $ 9# *' #C#C' #% $% ' # $ ' $% $ V, $ #$' ' $ - # $ $ $ $ $



GNM)

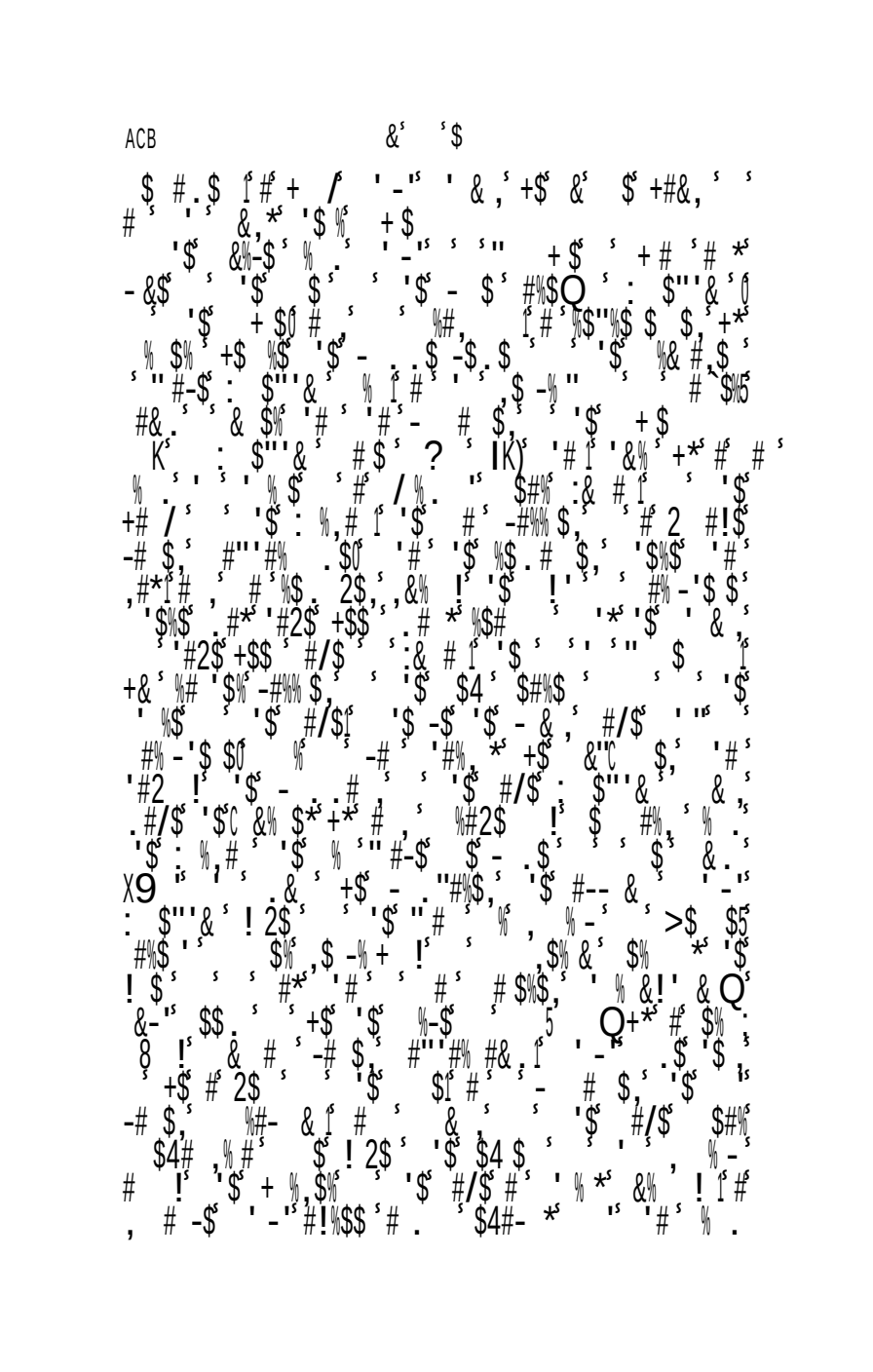
+# ' ‚ $ ‚ '$ ''% !'#%$ '$ %$. # ‚ ‚ +# ' ‚
‚ # ‚ #% & ‚ #%$ '$ %& ‚ ' & $ ‚ - 2$% !' ‚
#%!$ # ‚ $4 $ ‚ !% & ' '# ‚ $ $ $ ‚ +$ 2
' ‚ . & ' #2$ +$$ ‚ # ‚ #2 &% $ # $% !5'' #-$ ‚
' - ‚ ' $ ' #+ # ‚ >#,#%# %$ % $ ‚ ' $ ‚ ' $
, % 2 ! ‚ , # ‚ %# $% . #, $ ' $ '' # $#&
#+ 2$ & - ‚ % #+ $
9 $ %, $ ' $:#% . &/ ‚ ' $ # $% %& !' @ . ‚ U,#
% !' 2$% # % &!' ‚ ''''$%*+ # ‚ % !' & '' >&,#%
' $ ' % ‚ +$ $ ‚ # , # -$, $ ‚ ' $ $'' #-$ ‚
' $ - ‚ +*$ # $,# %#-/$ -' ‚ $ ‚ $- *$ ‚
@ . ‚ U$ ‚ %$#-' !' $ & . $ $ & ‚
& % $ 2$ ‚ % ‚ ' $ $# %$ ‚ $# %$ ‚ ' $ % . ‚
' - ‚ '' $% $- ‚ ' &!' ‚ $ & ''' $% '' #% ‚ ' # ‚ # $ ‚
‚ # ‚ - 2$% $ ‚ ' $ $# ‚ $ $ $ ‚
#% , ‚ ‚ $ ' $ ‚ ' $ #%!$ -$. $ $%‚ ' - ‚
% . ‚ $ ' $ ‚ '' $-& #% $# &%$ $ ‚ $ '' #-$
' $%$ #%$+ ' % -/5' $. + # ‚ #%- '' '#! ‚ ' $
% . $% #% $ -& ‚ $ $‚ ' & # *# $. '' ‚
# ‚ - -$# ‚ ! ' ‚ $'' $# ‚ ‚ $ ‚ #
. # ‚ - &% ‚ % ‚ ' - ‚ ‚ % ' %$ $ ' , ‚ % ‚ ! 2$
#--$ ‚ ' $ ‚ + - # +$% ‚ ' $, ‚ '' $% $- ‚ $ $
, ‚ # * ‚ $. #% $ # ' ‚ ' + $## % # ' $%
. + ‚ #% $ ‚ --&'' $, +* $ # ' ‚ ' + $## % # ' $%
+# , - '#%#- $% + & $ $. $, ‚ # %#- $
$ ‚ ' $% $ #% $ # #% !$ & . +% ‚ #%- '' '#! ‚
%# !$, ‚ ‚ ‚ % ‚ $ $ $% ‚ ' $! $% #
. #% * % # , ‚ ' - ‚ # $% '' # ! ' % &!' ‚ ' $ - *
$ ‚ $# #% , ‚ ' $ #%- '' '#! ‚ #% $ # ‚ ‚ +# # ‚
# , ‚ $ & 2$% # ' & $ ' ‚ . # $% # ‚ ' - ‚ ' &!' ‚
. % $ $ &% ‚ ! ' , $ - ‚ ' $* % $ ‚ -# ‚ *+$ #-- & $,

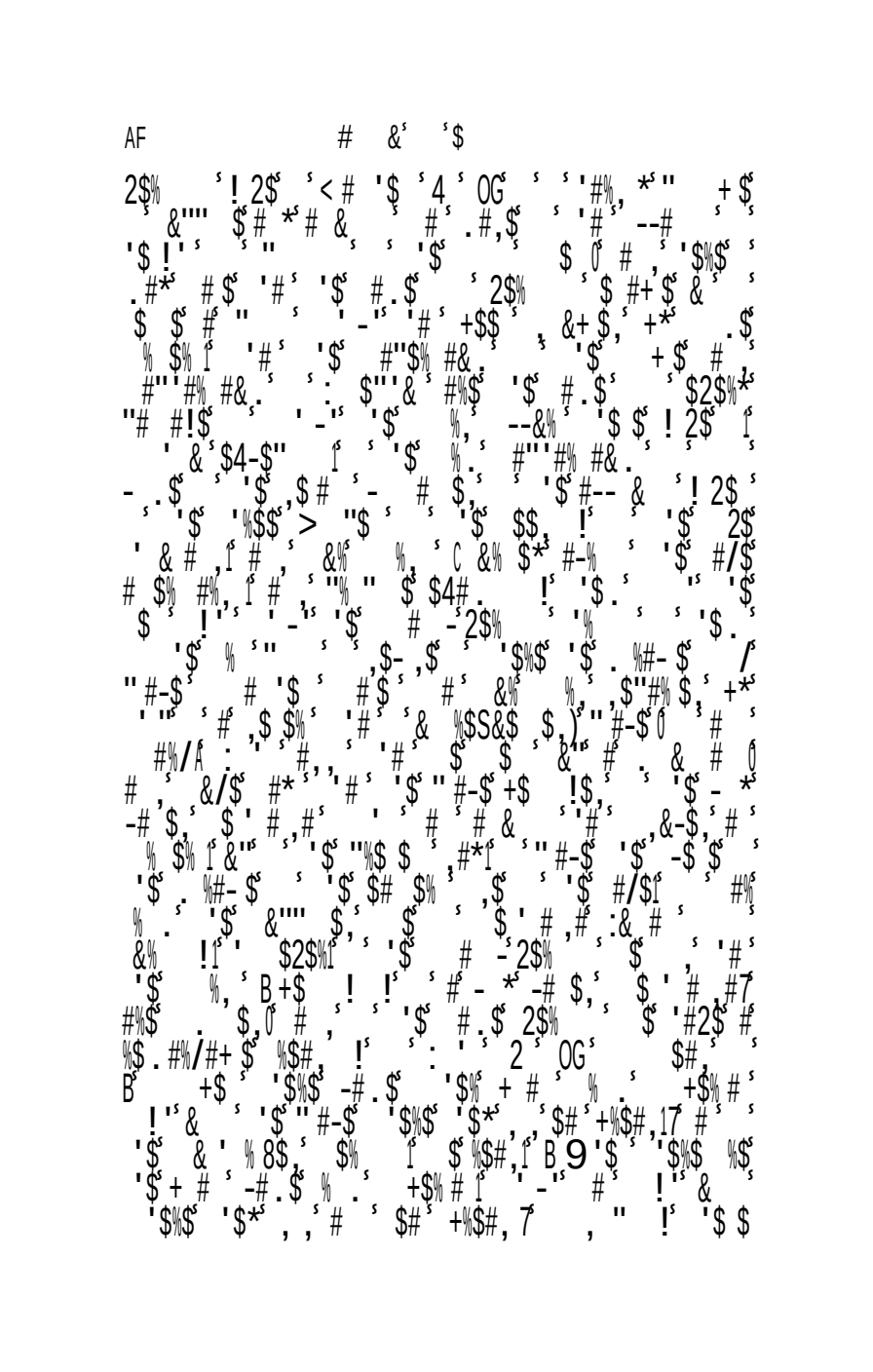


&% #*, $ -#.$ 2%#$.$ $&" $ '$ $
. #$ %#$ $ -* ' " .$)$ #$, # $%$
-% !$ '$:#%.&/$+*#,$$'$ %,$%$#-$$ $.#/'$
#$ '$ & #$! !$, 9$ & , $&%$
.$ $ # 4 & *$ / !$ &$ % &$ #. $ $%$ '$ &-'$
#.&$$ #$ '$ -'# !$ '$ % # $% '$ #*$
'$.$$ '$%$ #$ '# ! !$ +#-/$ $ '$*''$ &$ '$,$
$ % $ #$ #''''% #-'$ $ +$% # $ C .$
+$-#.$!%$# *$ $4- $,$ % !$ $'$!& $ #$ $!$
2%*$ $'$ $ $,$ +%#2$ *$ '$'#, #/$ $.'$
B # #C#'7 $.@.$ U$ $ #$,'$ $.$ +#-/ #!#
%#+$ "$% $ '$ #,$ +% &!'$,'$.$ +#-/ #!#
#$*

@ \

$ $''# $ $ #$4#. # $ $ '$ $ $ '$
'%$$ - $ #''$% #&.$ $ ' #,#$ ' %#8 $ #
.#*#$ -$ #$ '#$ -%'',$ $ '#$ *$ +$$,$
& *, $ -$ $ #+ $ $ & $ #* '$ -$% # *$ '$%$
# *$ $ $. # *$ #- $ '#2$ ' 2%$
+$$ $ #$ *$ $ 2$%$,$ %. $%''% $ *+% &!'$
% #%,$,$ 2$%$,$ '% .$!$# .$!'$
$ '#$ '#$ ' $%.$ +$$ $ 2 2$, $ &-$,#%/ $ $
$ # &,$ $ ''$- # *$ $'$,$ -# $ &-$,$%/ ''% !$
# #+ !#$ '$ $ & # $ $ #''#% #&.$
.$ $,$ +*. $''& $ '$ $4 $ $ # , '' % # -$
&% %, $ $ &% $ *#-% $ '$ #/$ # $% $$, !$ '$
2$ ' & # ,$ & .$ $ '$ # -2%
V ''$ % # $ %.# $ # ,$.&-' $. %$$
#.$,$+ $, $ '$ #&-' 8 $,

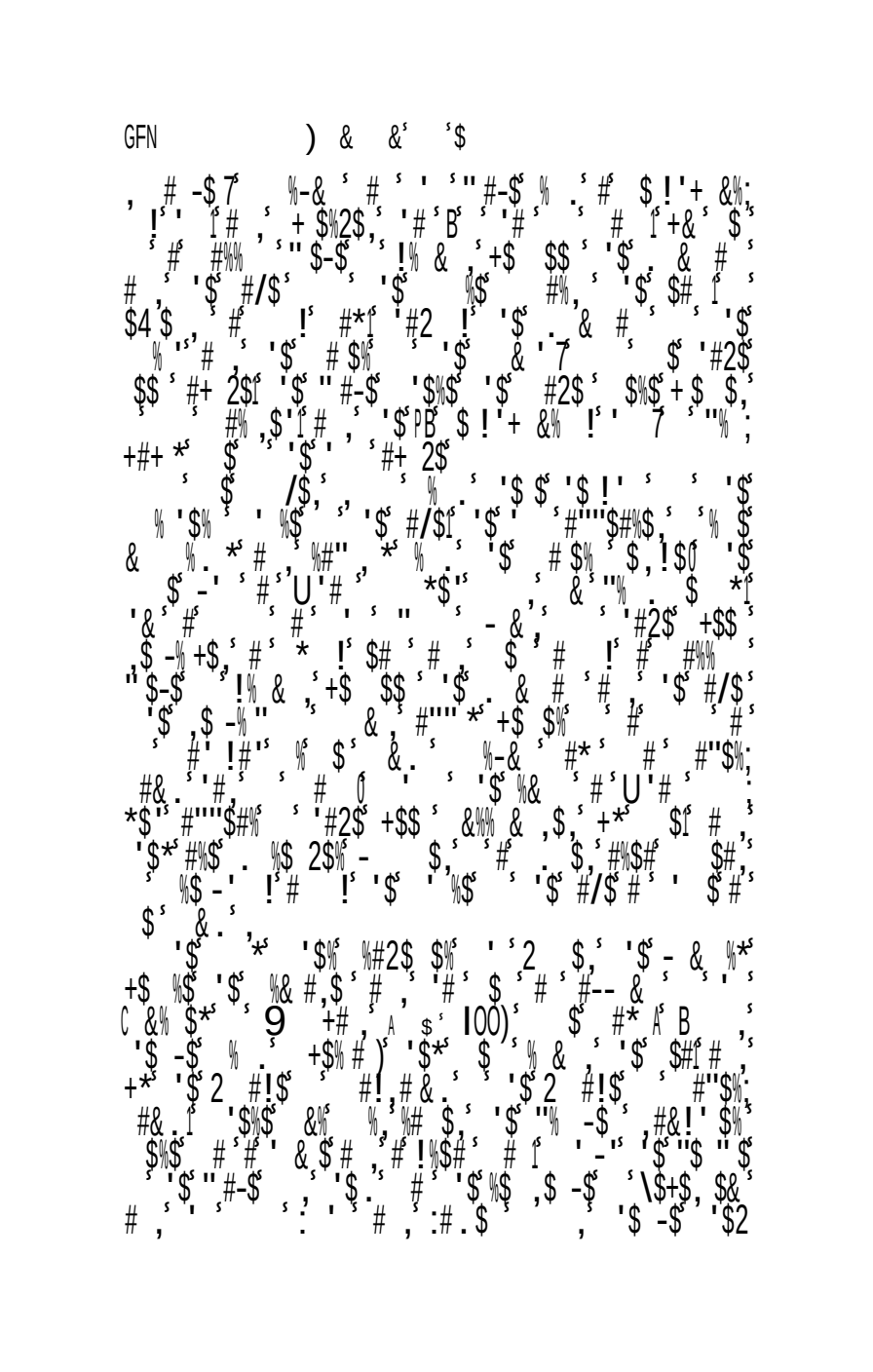


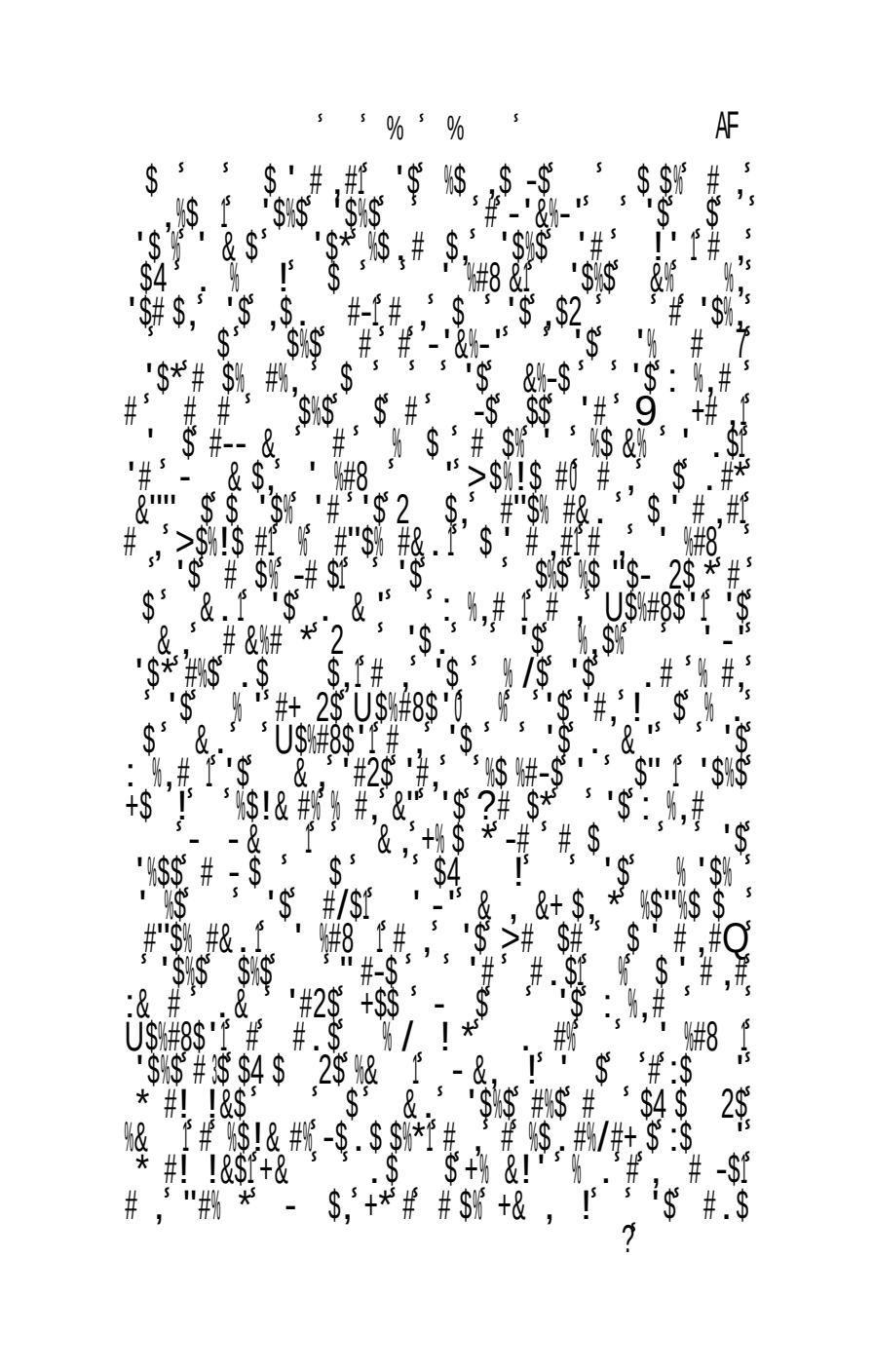


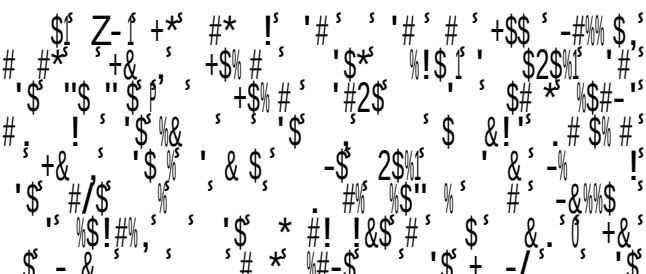
)ʿ ʿ ʿ ʿ % AF>

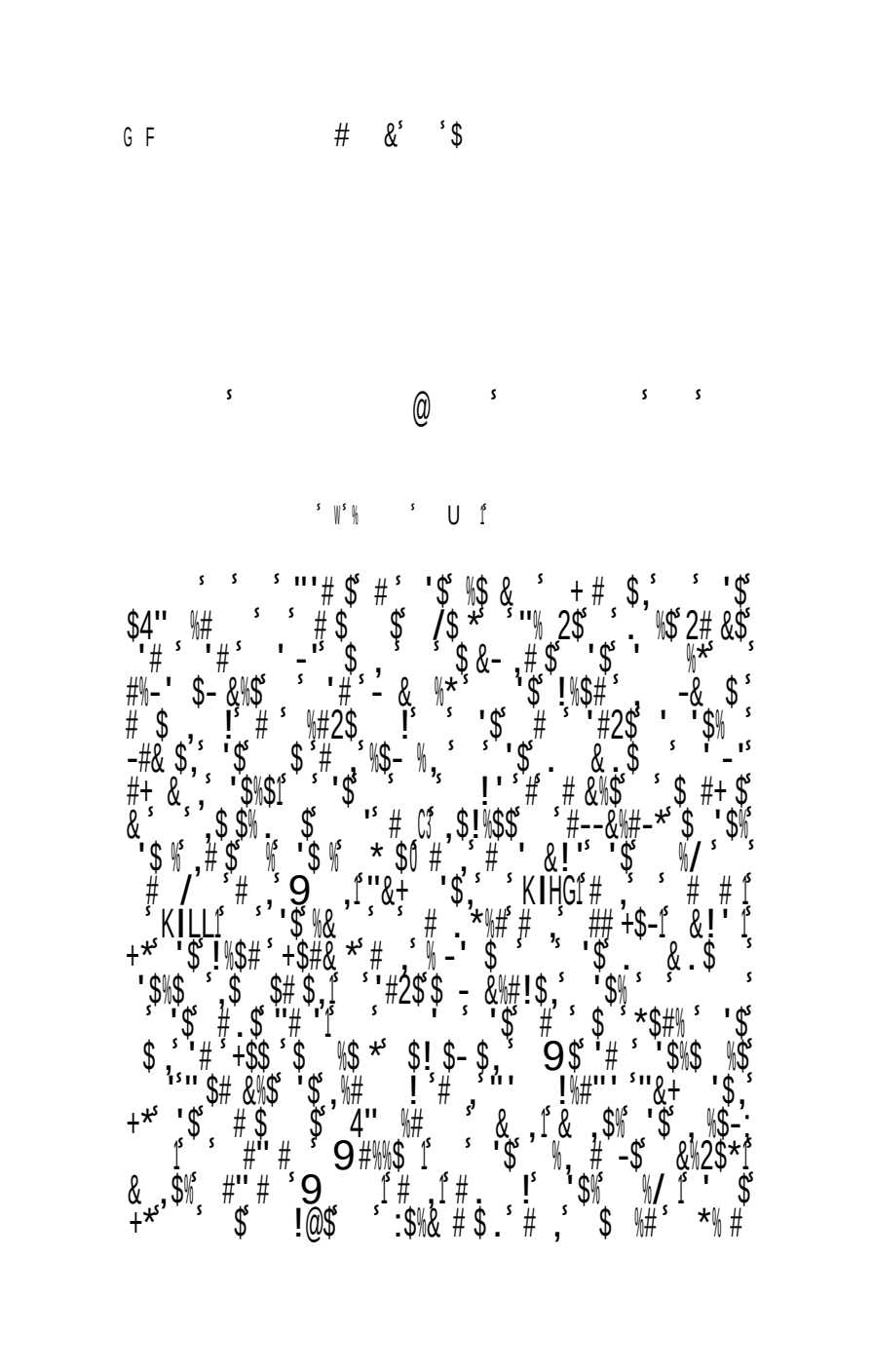
%$#¸ !ʿ ʿ #%% 2$ #ʿ '$ - - & ʿ '# ʿ '$ '' #-$
¸ $#% +$% # ˛ # ,ʿ '#¸ ʿ _ $-
$ ' # ¸#0 # %$ & ʿ ,ʿ -'ʿ ʿ % / !'#-- %¸# -$
¸ʿ ' $ %#¸ ʿ ʿ %-& ʿ '# ʿ # ʿ '$
!%# *'' # ʿ +$' ʿ ʿ #% $ ʿ ʿ '# & %·
& # $ *'#''' $ $ ʿ ,'# ʿ '$ $ ʿ ʿ . # *¸ + -#¸
2 ʿ '#2$ %- 2$ $ -$ +$$ ʿ %# ʿ $%%$ ¸ ʿ
'$ %' '' #-$ ˛ # ' $% 2 ʿ - & ¸ + *
'#2$ #/$ ʿ '' #-$ ˛ # ' $ -$ $ ʿ '$ #/$ ʿ U'# ʿ
$ %- ʿ $ $ *¸ ˛ ' $ ʿ $ %$- '' # ʿ % . #8#%$ ¸ ' $
ʿ # ' $ ˛ 2$% ' $ '' # ʿ %#$ ˛ # ¸ . # *¸ ' $%
-# $ ʿ ' -¸ #% $ #. ʿ #% ʿ # ¸ ' ʿ '#2$ %#2$ $ ¸ ʿ
$ ʿ 9# ʿ '. ʿ ' $ -# $ ʿ ' $ -$ $ $ ¸ ' $
$!ʿ ʿ -$ 2$ ' $ # ʿ 9 ' $ ʿ $ -
'#¸ %-& ʿ 2 2$¸ ʿ ' $ - & ¸ %* # ʿ ' $ $ ¸ ' $
2 ' -$ &%*˛ $. % '# ʿ * $#% ʿ # $% ' $
& # . ¸ $,# 2# 0 '# ʿ ' % +$ $ '# $
2# ˛ # ʿ '' + * # $% O % ' $ % ʿ - .
S&$% % ʿ ʿ ¸ ʿ $$. ʿ ' #2$ '' $ $-& $ ʿ ' $ ' % #
* !'%$# ʿ $4 $ Q * # >#,#%# # #%!$
, &% ¸ - * # + ' '# >#,#%# ʿ $ ¸ ʿ +* ' $
%$ ¸ #%/#+ $ %#- $ ʿ ' % # :#''# ¸ $) ʿ ' +& ʿ
$ ' & $ ˛ $ -# ʿ ' $ '# - ! ʿ ' $
- - & ʿ ' # # '' #-$ ʿ &- ' ʿ $%$ ¸ ʿ : & ʿ ' #2$
+$$ ʿ $ / ʿ # ' # ʿ . 0 # ¸ ' # ʿ $%$ - & ¸ ʿ
' $ ' #2$ +$ ʿ . 2$ ˛ &- ' # ¸ #% $ # $% #% ¸ ˛
% %# $%% ! ʿ ' $ %#¸ % ' $ $# $% ʿ ' $
$ $% ʿ ' % $ ¸ ' $ #/$ ' #¸ ' $. %#- $ +$ ʿ
''% % ·¸ ʿ ' $ % ·$
9 ' ʿ %$!#%¸ ʿ ʿ $ 2 *#!$ ' . $˛ # ' $ ʿ #*

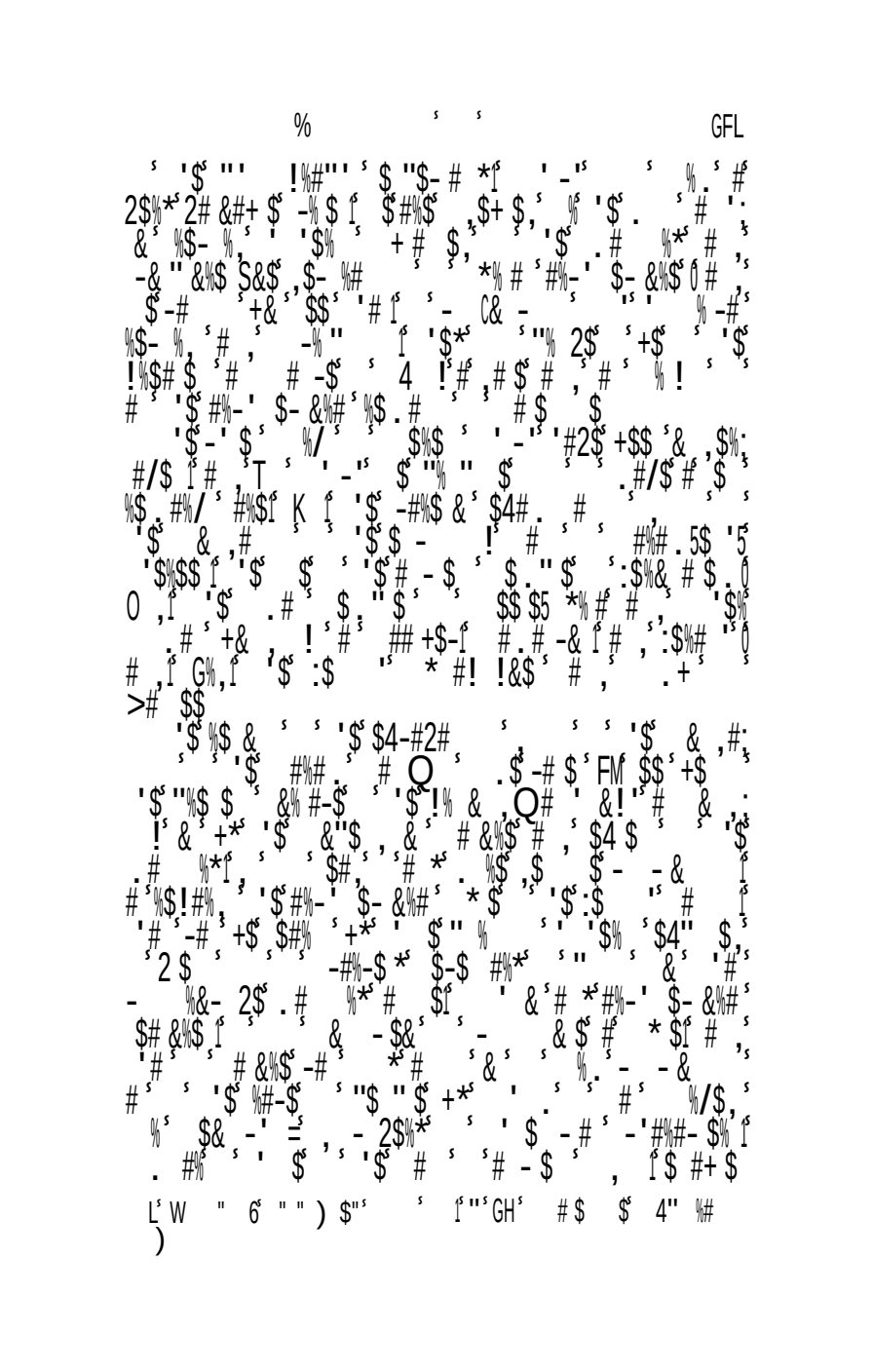
AFA

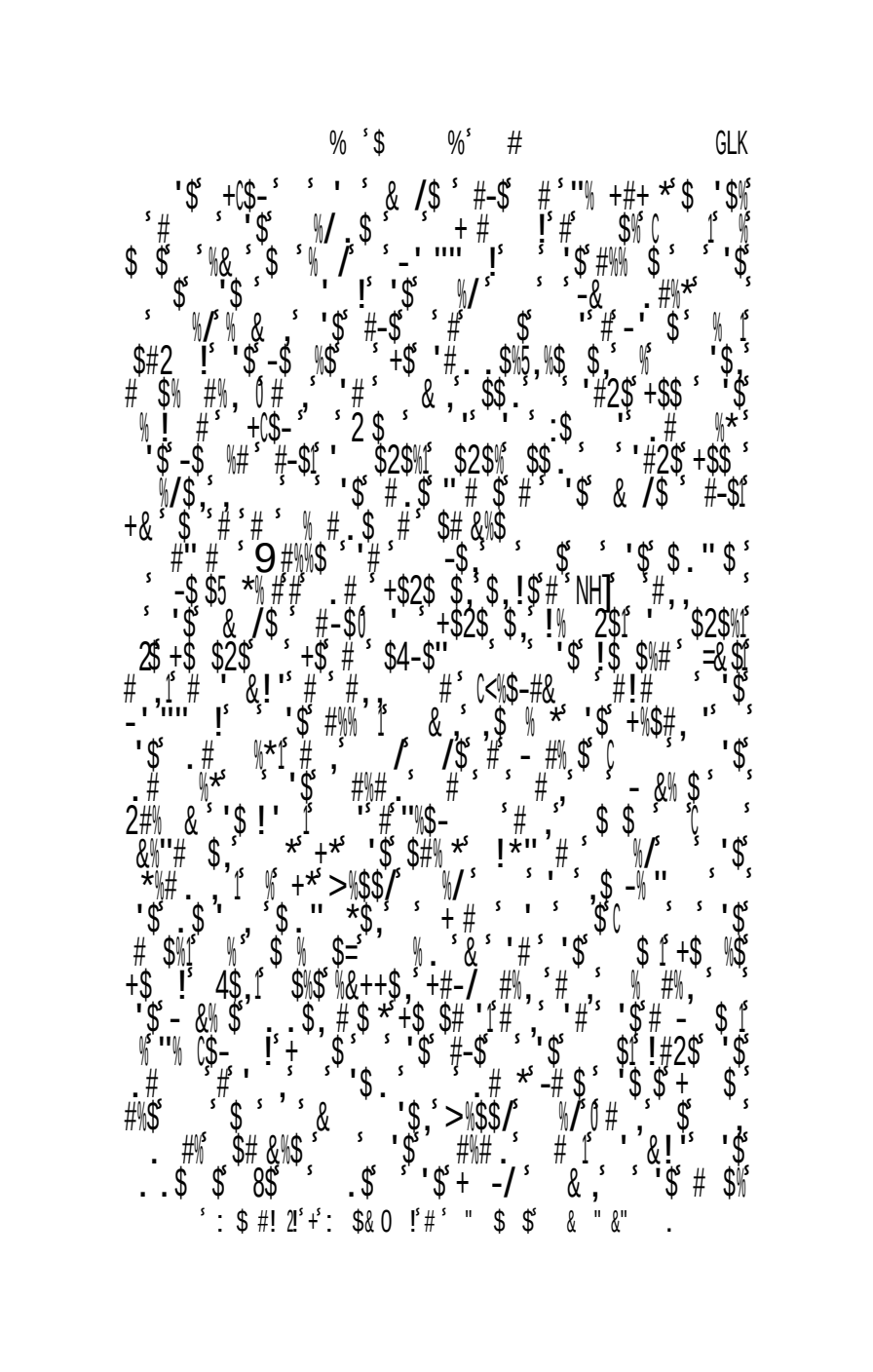






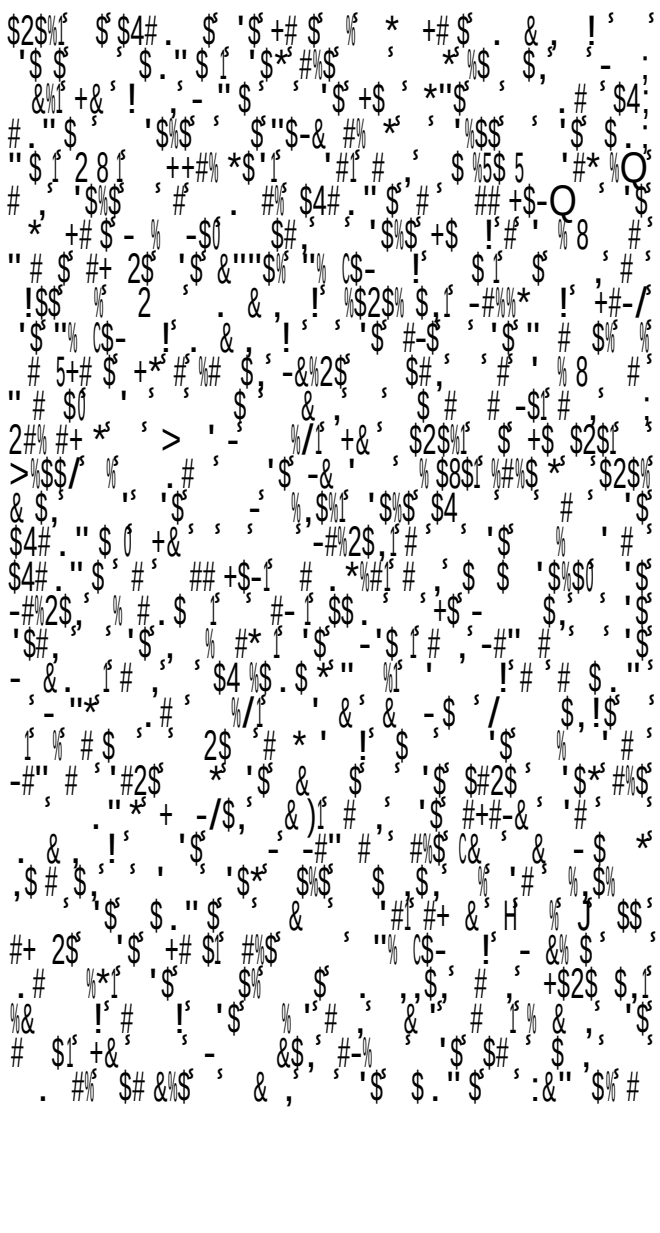


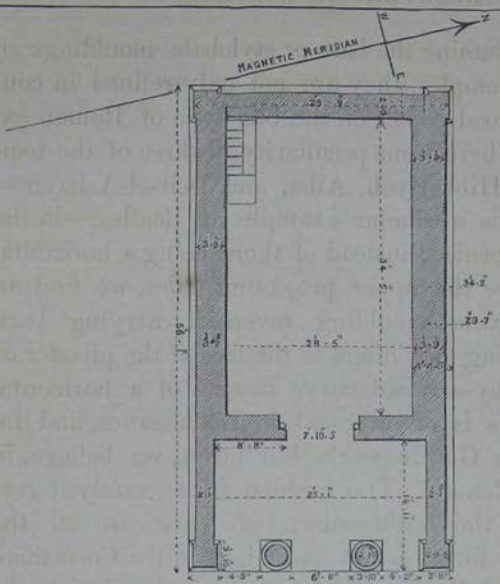




&ʻ ʻ$

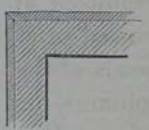
'ʻ ʻ$ 2ʻ$ $.ʻ"ʻ$ʻ .$# &%$,ʻ+* #" # ʻ9#%%$ ʻ
2 ʻ#%ʻ$ ʻ'ʻ$ʻ$ ʻ-ʻ %,$%ʻ ʻ% ʻ' # ʻ#ʻ$ʻ'ʻ$
$%ʻ ʻ$ʻ,ʻ& + & 2ʻ$ʻ'ʻ$ ʻ-ʻ %,$%ʻ ʻ'#2ʻ$ # ʻ
" % -ʻ$ʻ$ʻ Bʻ # ʻ '# ʻ ʻ'ʻ$ ʻ% ʻ'# & ʻ' # ʻ
ʻ'ʻ$ʻ$ -ʻ$ # #%$ - &$,ʻ +*ʻ ʻ'ʻ$ $# ʻ # ʻ# ʻ
%.ʻ # kʻ ʻ'-ʻ ʻ"$,ʻ- & . +$ $$ ʻ -#%%*ʻ
'ʻ$ - % -ʻ$ #ʻ ʻ"$,ʻ$ ʻ # ʻ- & $ ʻ$ $# $% ʻ
#-#,$ʻ &% ʻ$%$ʻ$.ʻ"$ʻ -# ʻ % .
' # ʻ#%$ ʻ"% * $0 ʻ# ʻ '#2ʻ$ " % - $ ʻ &%
- &. ʻ% ʻ$ $ $ $ ʻ"ʻ$ #%$ %# $ ʻ #
* +#ʻ$ ʻ%" & ʻ2#%* !ʻ ʻ'$!'ʻ% .ʻH $$ʻ
J -ʻ'$ KK $$ ʻ$ ʻ'$ -'ʻ$ʻ"$-& #% ʻ$
'ʻ$ ʻ$ ʻ$. "ʻ$ ʻ$4-$" !ʻ '# ʻ< & ʻ '#ʻ '# ʻ
'ʻ$. &$, ! ʻ ʻ * +#ʻ$ #%$ - &$,ʻ - ʻ$
% &ʻ ,ʻ % ʻ ʻ ʻ'$ " % - ʻ # ʻ . # ʻ
$ $.ʻ "ʻ$ʻ$ ʻ$ ʻ'$%ʻ 'ʻ$ * +#ʻ$ ʻ -#%% $ ʻ$ ʻ ʻ % ʻ
$ ʻ'$. # #-#.$ʻ # ʻ % . "$,$ # ʻ#ʻ$ ʻ $%$ ʻ
$ ʻ'$%ʻ ,$ʻ +$ $$ʻ ¯ _ʻ'#%$ ʻ!'ʻ ʻ $"ʻ $# !ʻ
ʻ'$ʻ$ ʻ$% %(+&ʻ ʻ'$%$ʻ ʻ$%$ʻ # ʻ #''''#%$ *ʻ
.$# ʻ # -$ ʻ# ʻ $%$ʻ #ʻ$ + & ʻ &'''' $ʻ$ ʻ '$%
'#ʻ ʻ$ # ʻ & $%$ #, ʻ$,ʻ ʻ$ʻ-$ #ʻ %
'#ʻ ʻ$." %%%* ,$ ʻ # % ʻ $%$ "% 2 ,$, # ʻ #
.$# ʻ.ʻ#--$
'ʻ$ $ %# -$ ʻ% ʻ'$"%$ ʻ # ʻ ʻ'$ & 'ʻ $ʻ
#ʻ ʻ$ʻ$ $% ʻ$ ʻ'$"$ʻ '% &!'ʻ #ʻ ʻ% ʻ
ʻ$ * +#$ʻ ' -'ʻ $ ʻ$ʻ$ ʻ$ -'#. +% $,$% #ʻ
%# $,ʻ,#ʻ % " # %. #ʻ ʻ$ $ $,ʻ # % .ʻ
'ʻ$ -$ ʻ'% &!'ʻ % ʻ ʻ'$ -$ #ʻ .ʻ #% %# $ ʻ.
'''ʻ % ʻ#%$ ʻ , ʻ ʻ +$ $$ ʻ # . "$ʻ $ ʻ$
$." ʻ$ ʻ.&'' $% # ʻ
ʻ$ -'#. +$% # ʻ'$ $ ʻ$ ʻ ʻ'$ $." $ ʻ#%$
"$- # * $%$! ʻ .$ ʻ'$.ʻ#%$,$ -% +$,ʻ #



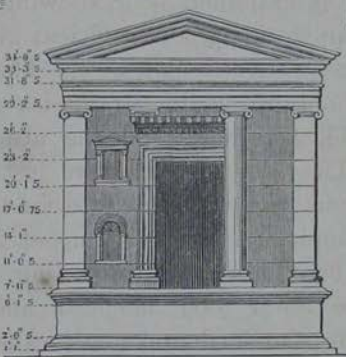


PLAN OF THE TEMPLE OF HIBBARIYEH.
SCALE. 20 FEET TO ONE INCH. 1/240

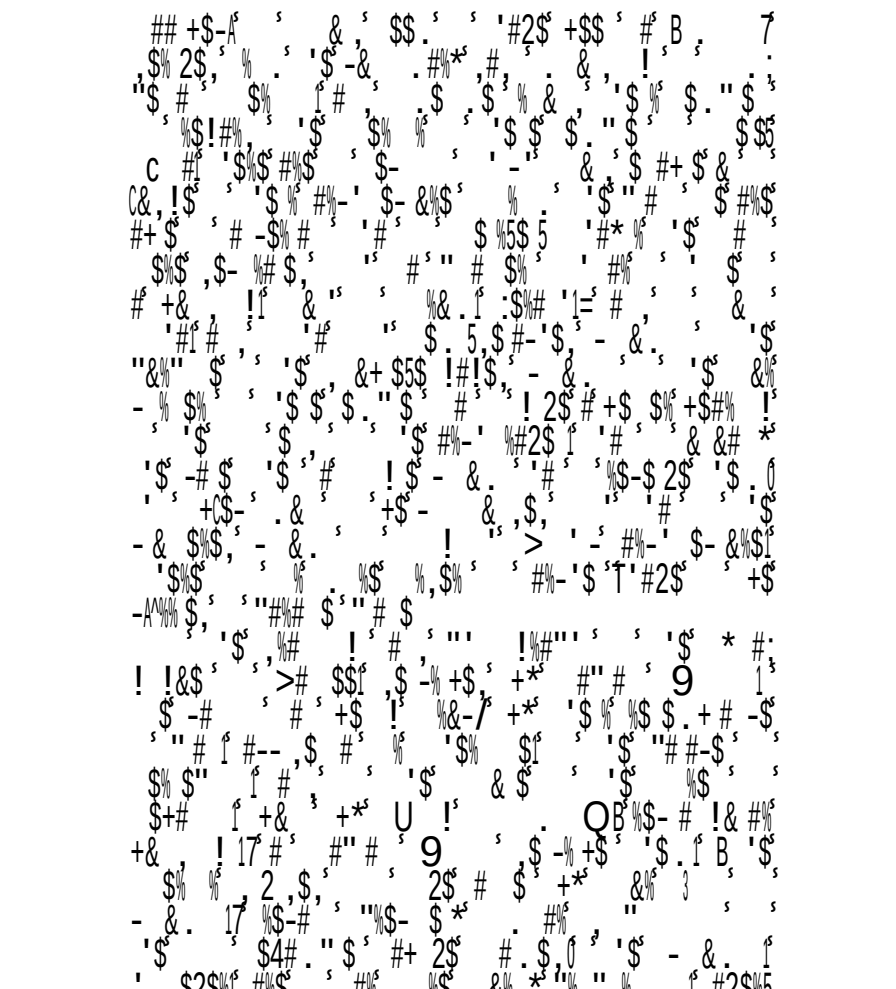
VOLUTES ON ANTAE.



SKETCH OF SAMPLE OF BEVELLED STONES.



RESTORED ELEVATION OF THE EAST FRONT OF THE TEMPLE. 1/240



TEMPLE OF THELTHATHA (Uğğ) CALLED ALSO NEBY SŪFA. SCALE 1/100

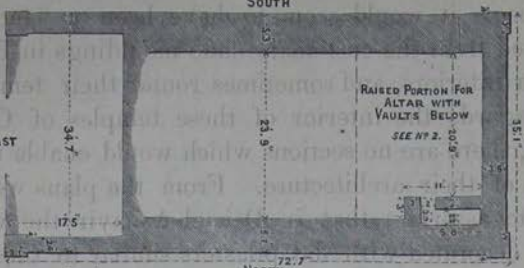


FIG. 1. PLAN.

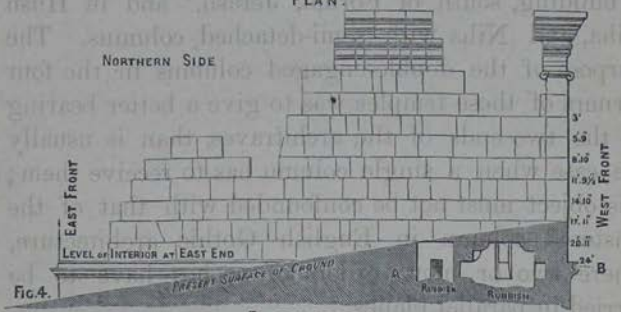
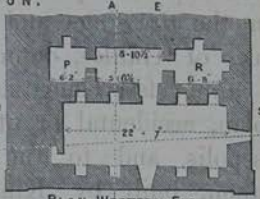


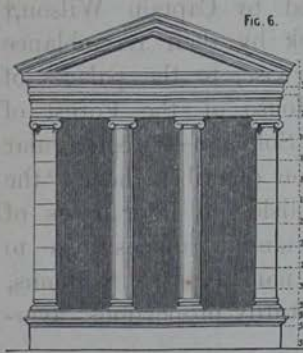
FIG. 4. ELEVATION.



PLAN WESTERN END B

FIG. 2.

FIG. 6.



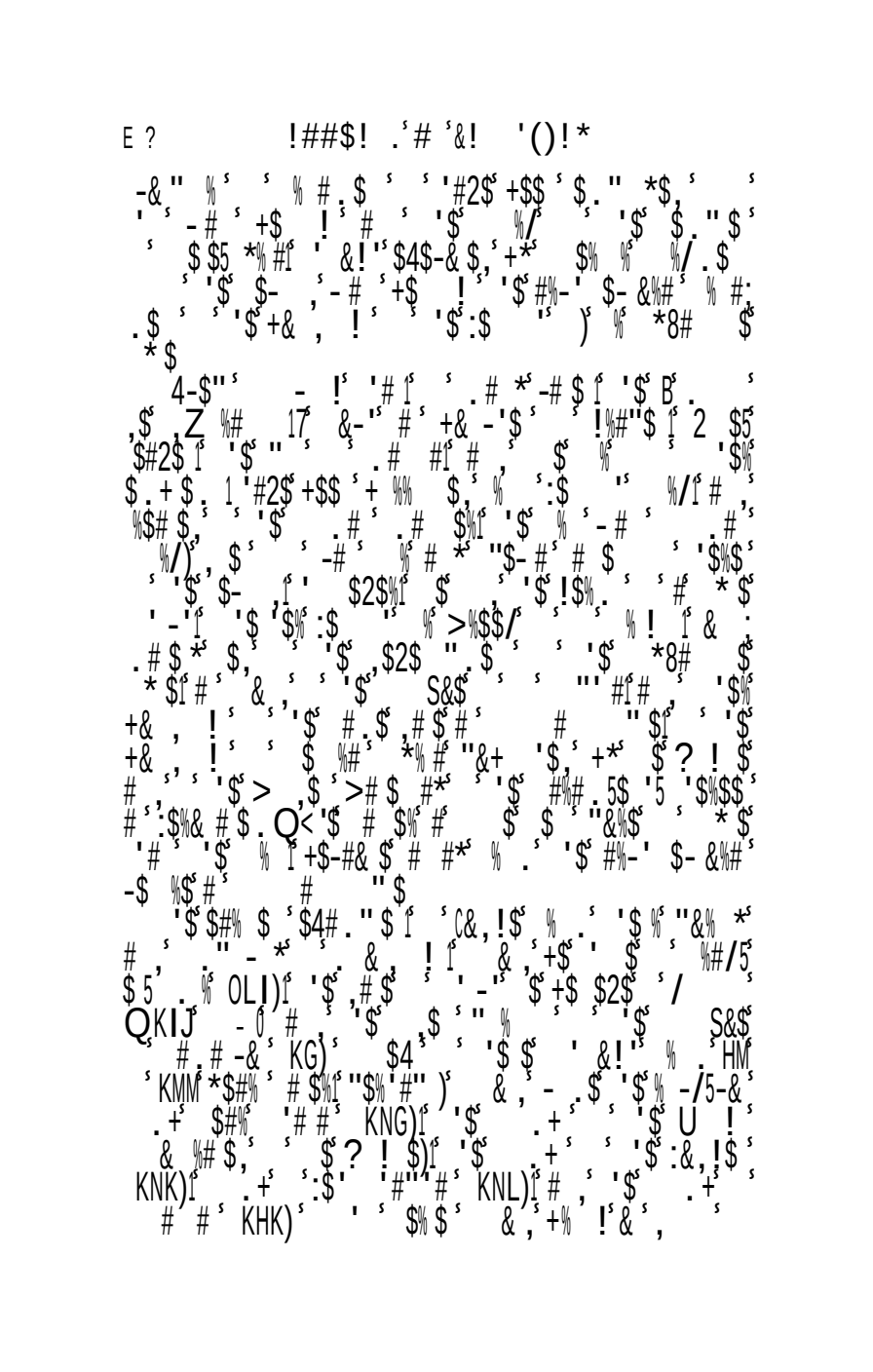
EAST FRONT 1/100

CORBELS IN VAULT.

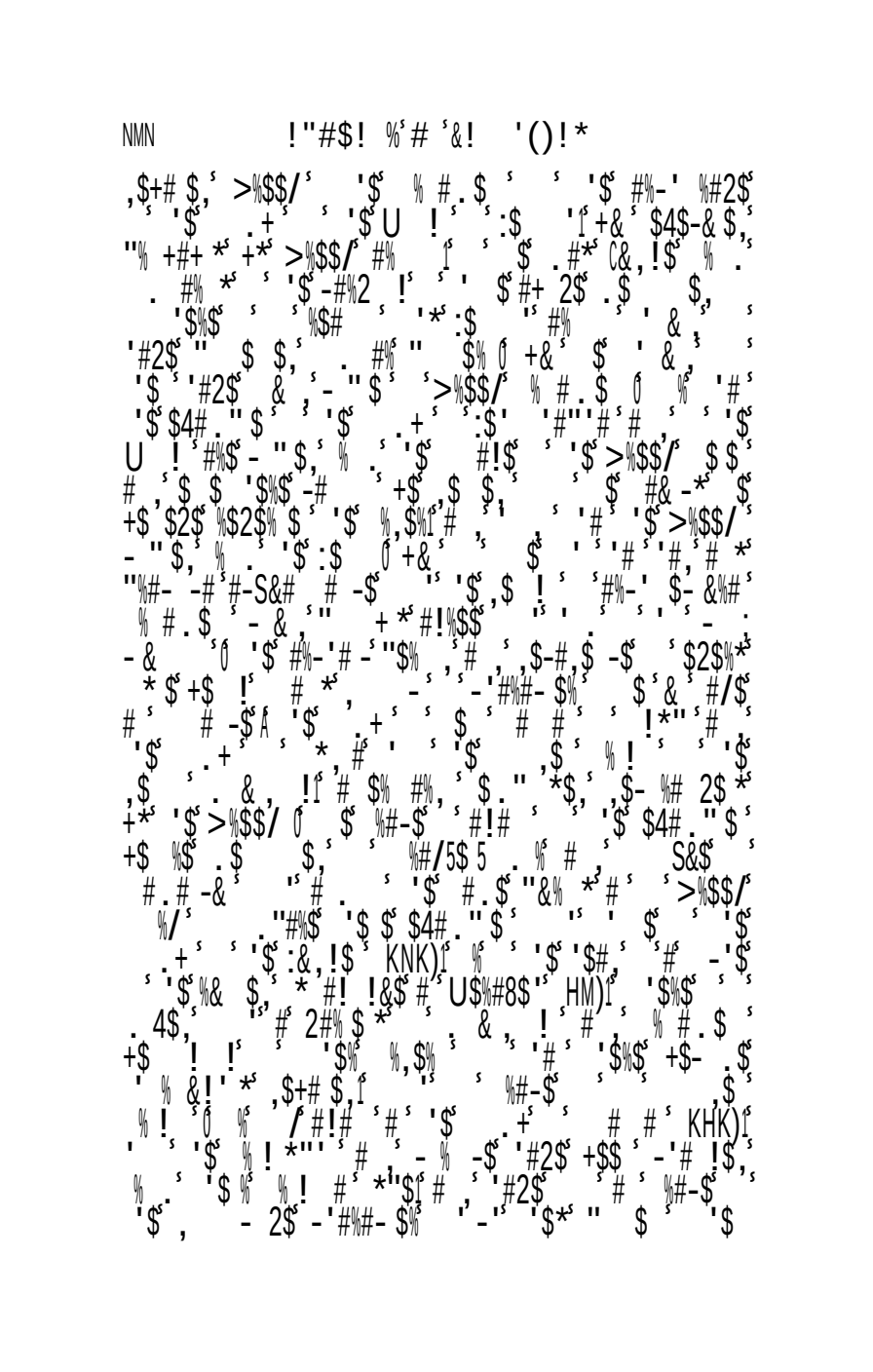
SCALE 1/10

FIG. 5

FIG. 3. ELEVATION.



'$. $ $% ,' %&' # ' - &, ! '$ '$'# '$ -$ %-$ &%*,' &%$%#' '$ *#! !$ & '
#''''$#% +$ # # $%''$% ,' # , ,# $ % . $
' % ', $ 4 '- $ &% $ ' - & 2$
$ $# #2$ % ' ' ' $ ' '
!%#,&#',2 '' . $ ' '$ * /' '# ' *8# $'
' - -# -# +$ %#-$,' $'' +*' $ ' % &!'' # ' '$
$4# '' $ ' '$ #%-'# - # ' $,$+# $ '' $% ' ' # *$
* $ #%$ $# *$,' !& '$,' $ %$# .' $ ' '$
#%- '$- &%#' % # . $ # ' & ! #/$' %
-$' '$ % 5 #.$,' $4# .'' $ ' OLI' # ' KG)' $
' $ -# ' # ' $ $ '$ %$. + # -$ +$ $ ' $.'
^ ' $ $#% >%$$/' %/ # ' .'' $ -' $ $ &.'
+$'%$. $. +$ $ ' # $ # ' ! ' *$ '+# $,' >%$$/)' $
' $ & ' ! #%$. #%' # ' ' $ %$ # .' $
-% '$ -'#%#- $% ' '$ -#%2 ' ' ' $ ' $ $ ' $
. +' $#% '# # ' #!# ' '$ ' $ #+ # &%$' # '
#+ *' $ % ! *''' # ' ' $ '# ' #%-' %#2$' ',
. ' # - ''*' ' $ '$. ''$ ' % #, !'& #% %& .)
! & ' 2 . $ *8# $ $
* $' ' 2%' $ %$- ! $ ' $ % &-
$# &%$ ' -' #% >%$$/' ' % ! X' &-'' # ' '$
- # ' %$''%$ $ # >%$$/' $!%#''$ # ' 2 $5 $#2$ ' '
' $ 2$' # 2# $' &'''' $ ' ,' +$ ' $ '' $ ' '
. # #' # ' $%$ $. + $. -' .#* # $ * +$
' +$:$ ' 9 $ -$ # ' # -'# ! $ ' '$
- $ ' >%$$/' . & , ! ' -' +$- . $ 2 ! % & '
+ ' # # -# $ - %&- 2$
$# &%$ ' '$ - # -$ #+ # &%$
'$ -& '' &%$, % # . $ ' $ * ''# # ' '$
. + ' :$ ' '#''' # ' KNL)' # ' $ ' $:&, !$ ' KNK)'
:' ' $ #-% $% # ' $ # $%' ' :$ '' +&
0 0

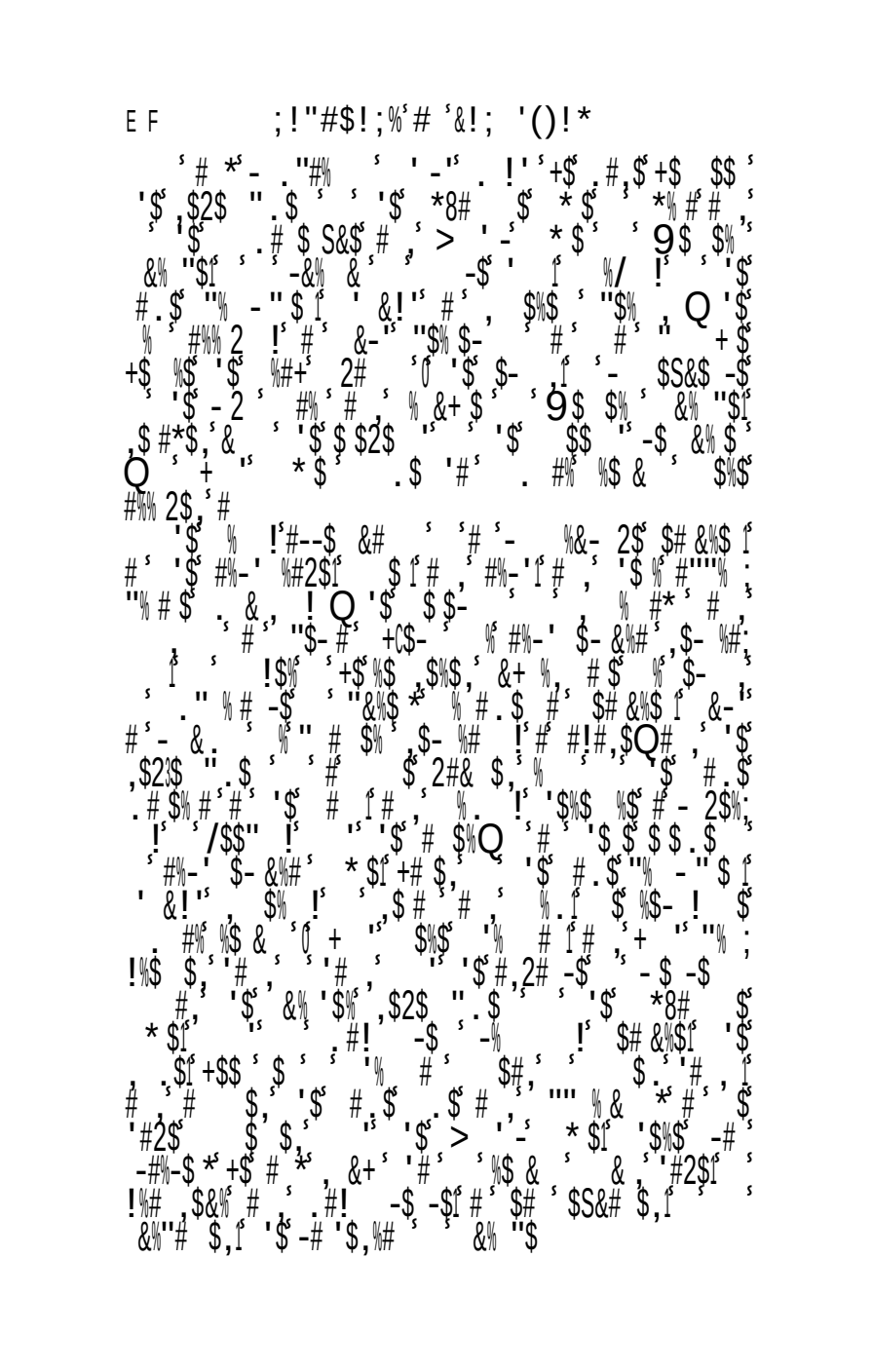


'%+(=#= !'(.'>! ' 0 0* E

$: " *$,' ' '$ #% '$ ' % ' $% >%$$/ $. " $ '
' $ - &#' - ''* !' ' # - 2$ # ' $# &%$ /$
' % ! *" ' &%$ ' $+# $ ' #%- ' $- &%$ $# , '
+$!' $; " ' *$,' S& ' # ' $%$ $$!' # '
+$- ' % ' ! # ' *"'$ ' ' %2% $ ' $ % $%$ '
' #!%$ ' ; $ #& -* ' # ' $ >%$$/ '
+# $ ' $ ' ' ! *"' ' # ' ' $% - 2$ # ' % #.
. $ ' % ' $ ' $+# $ ' "$- . $ ' . ' ' #% '
- & ' *. $#, ' ' # - . " $ $ -' # ' ' ' ' *
#%-' ' $ - &%# ' #%
' $! ' # ' "' ' !%#"' ' ' # $ $ #%-' .
$- &%$ ' #%$ "$- # * $%$!' # ' $ #+ !' & '
%#- $ ' $ -' # !$ ' # ' -# ' $ % ! # '
>'$$/ . & , ! Q-'# !$ ' ' -' /" #-$ "% % '
. # ' * % #' # ' ' $ - $:
" %# $ & ' #"'"'#%$ * ' " $ ' $ ' $ ' $
$#% $ ' $4#. " $ ' & ' ' $ ' % #* ' ' $
% " $ >#$. ' $ ' $ #%# . # ' # ' ' $% ' #5 & '
' + ' +$ %$. $ $ ' $ $ -' # !$ '
#%$!%#, &# ' # & #/$ ' ! ' $ # ' $ %
"% -$$ ' # - $ ' $ $4# . # ' $ %&
' * ' ! !& # ' U$ % . ' # ' +#+ * % .
' 4 ' - $ &%* $%#' # ' ' - ' #%$
" $ - # * $ ' +* #" # ' 9 ' # ' % ' * '
%$. #%/ ' - $* #%$ ' ' $ "' !%#"' '
JI JF # ' JL
9 $ ' ' $%$ ' $ ' % #* JF) ' $ ' %$$
' 2 ' ' # - # - $ #+ # &%$ 2 8 #%- ' %#2$
% 8 # ' - % - $ ' $ #%- ' %#2$ % $
' -# $ ' +$! # % #*) ' # ' $%$ #-S& %$ ' #
* $%$ ' "% ' % ' # - # - $4# . ' $
+$! ' $. # ' &"'' % ' ' ' . %$. $ ' # ' ,$$ " #

$# &%$ ' '$ '% # >%$/ *8# $) %# '$%
'# '$.$ %$ '$ & . #/#+ $ '%
'# ' $ %.$% "$ "$ 2 "$, $ %# * %#
$ $ $ '$%$ # "$% $- *$2$ - # ' " . !$ $ &
*' $ '- ' # '! ' $ #%$ #+ $ ' " . $ &$ $
&%- $ $. # * $ $ $, $- %# 2$ $# &%$ ' $ $ #%$
$ # $%$, # , $ # '#2$ - '# !$, '$ %
% ! # - '#%#- $% ' # , $ # ' $. $ # $ $ $
:$ %/ &- ' $ -# $ $ $ # $
-$ $ +& , ! & -' # + # * #! !&$ '' #*.
. # $% # $ %$- $ '$ %/ # '$ $% !$ $ &
. 4 &%$ # * $ - & # * &, *$! $
$ ' & # -$ ' $ 5-# $, . + , # .
% - $ #+ # &%$ -#%% $, +* - $. & $ $ #-'$
- & % $%'' # $% ' $ > $- 5 $ *% #
'' $ ' . + \#-'#% # $ '#2$ # !'' # $
$ #+ # &%$. #% '$ - & . # > %#$ -
*% # $ '' # $% . '$. + ' U ! $
% ! *'' '$ $ # , . # * '$% # -$ $
' - ' $ % ! # $ $# &%$ $ '#2$ + $$ $ - '' $ $#-'
-# $ # $ #% # '' + $ # %/$ &' # ' $
$, # $ *8# $ %/ - $#% * '# $ $
: $ ' # , $ * $ ' $ % + & + %% $ $
2%* $ # $ # $ &- - '' $ $ $
$ $ # $ '' % $ $. $! $ +& ' $
* $ # $ # *' # $% $ * $ % '' $% $
% %$# & , C& . + $, & '' ! $ $% ' & %' * . $

L -#0) ! ! 6(! (" #) #* $ #06 !
$($" & $" # #" "6) 0 $) #" "#) #! 0 "



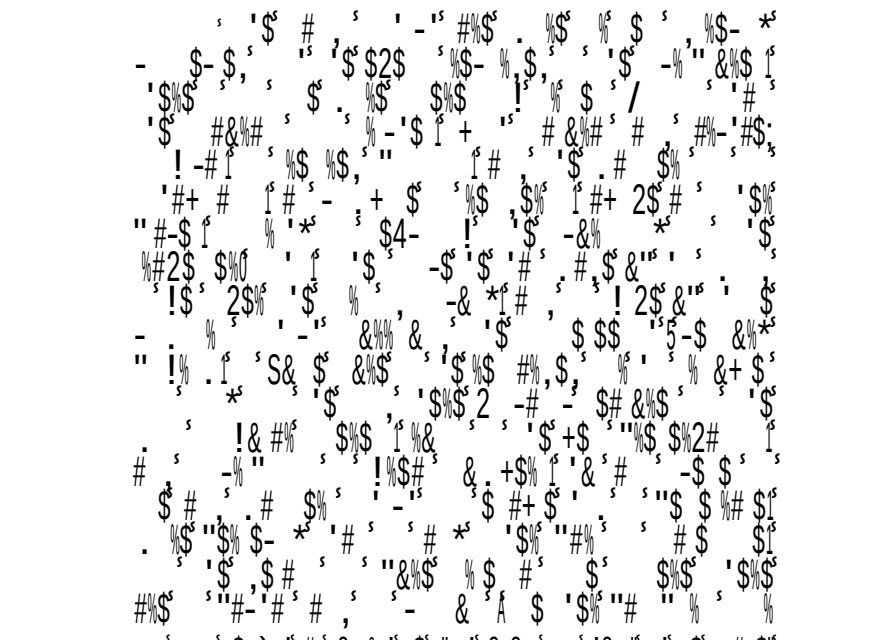
0*/#;.(+"!'# ' ;. !;';!'!(;" E D

' &,' -#%-$*'+$'" +$' '2$%%# $1' '$%$ %$1'
'$' 2# &$' ' '$'"&+ -# ' #' *8# $' #%-'.
$-&%$' *% # # ' $ $ '$%$' '$%$' ' ' #%-'#$! -#'#!$1' '$ '# %#, ' ' *$' '
! $1' # $,$ -*' ,*' '$' +$' $4#.'"$ ' '
- $' #% 1' $#% ' '$'"% - "$ ' $4#.'-'' '$*'
 $%$,'$! $,[# ' '& ' %$- 2$% ' " +$ ' $'
 #%-,' $- &%#' *$'9$/
 $ ' %$ /$*' #' %,' # #- %*' %$& ' #'
%$!#%,' ' $4" %# '#' '#' -' $%$,'
 & ' #$ $1' '$%$' .# *'%$ -' #+ &
 '#' $+$ 2 '+$#''#% # *' ,$2$ "$,' *$'

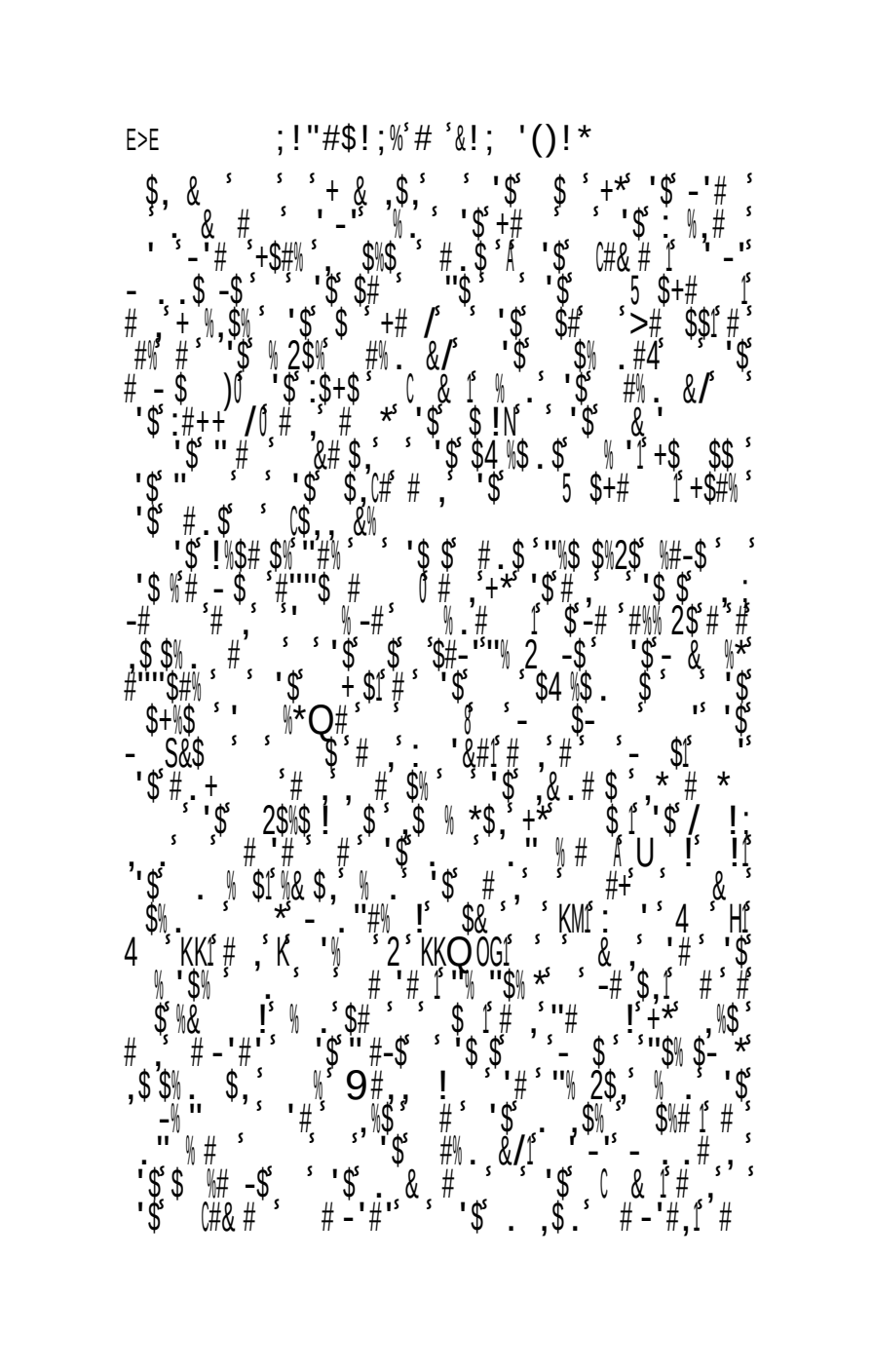
E> !"#$! .' # '&! $'()!*

' @

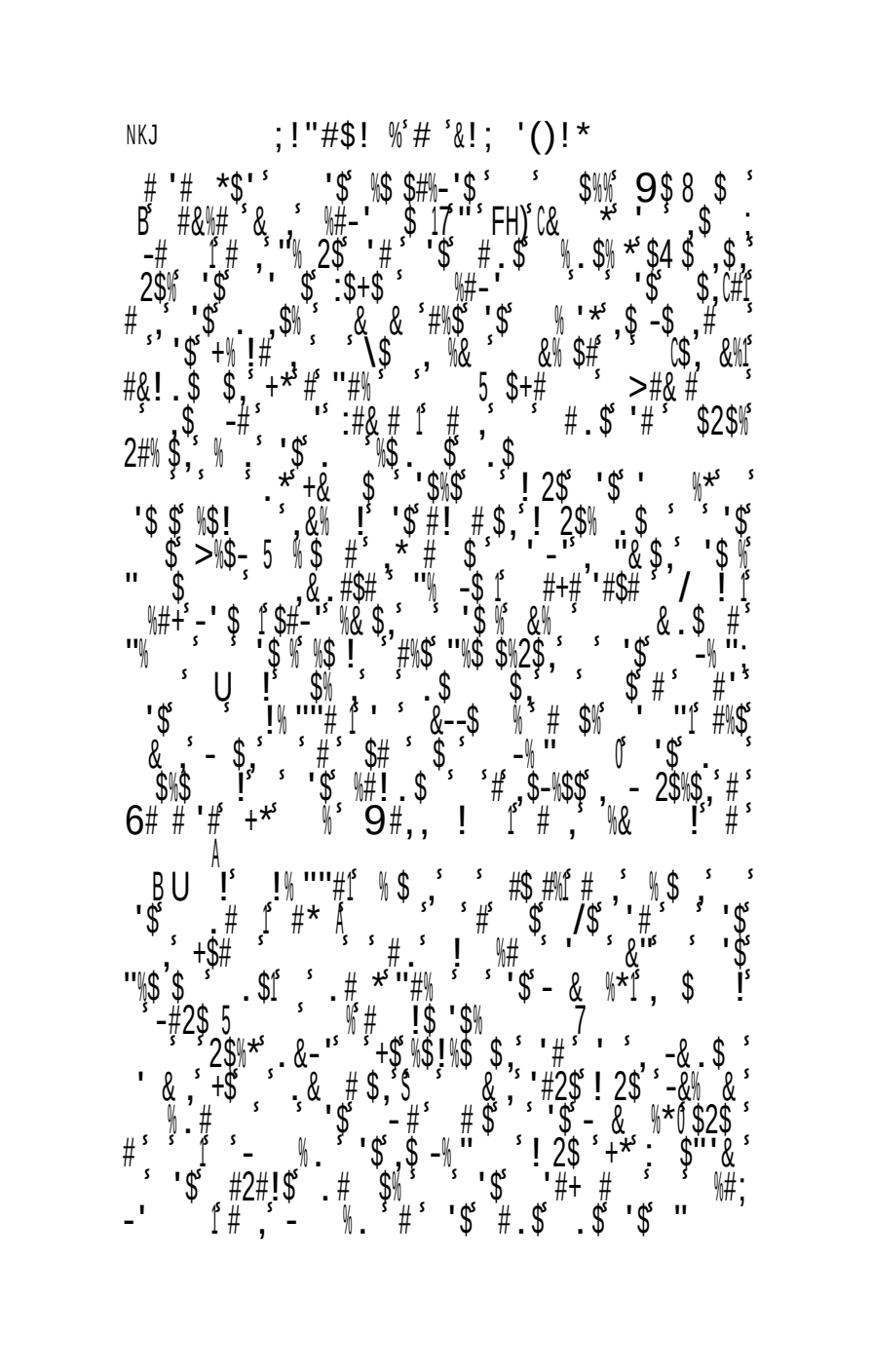
B' ' CA ' D > E 5' ? ' F CC /



'$ $ & # ' ' # ' ' $ ' #% '$ '
"$. & ' -* ' -'$'+#' ' #'!% &" '
$4 - 2 -# $ ' " $ -%# $% ' -
'#2$ '% &"' #' #'$" -' !$! -# *'%$-$ ' #'
$ % . & ' %$# ' #2#' ' -' ' "% -$ ' - !'
'# ' % $ ' ' " #$#& ' ' $ $ C# ' ' # $%
' #'2# ' % # ! $' OO . $ ' +% #,'+*,OH !' $ %$ *'
- " $ +# # - % -/ ' -' '#2$ '#%,$ $ ', ' '
' $ " - &%$ S&$ % .O ' $ %'$!' ' #%, *
% *' % * $$ '#+ 2$.' 2 ' ' " # O +& '
' $ & # ' - $ -' &%% ' $ ' $ %$ '
' % #-$5 /$ $,!$ ' # ' ' +% /$ -'#%#- $% '
' % $ $2# ' %$,$%' $. # # &%#' #+*% ' ' #
$4 % -#+ $ '#& ' %' +% !# ' ' $ %& $ ' -'
' #+ 2$ # ' ' $ & & ' %#+ ' '#+
%$ %$# ' -' '$* -# ' 6# #' #'Q '$ % %$ ' '
>
' ' '$ $# ' ' ' !%,&' ' &# $ ' # ' '$%' -# $ '
' $ # #' ' $ '' % ,&- ' # $% $ % . ,#+ $
-%# $% ' $4 $ ' ! ' , 2$ # $! ' ' % $ ' #
' % *' . ' ' $ $% #$ & ' ' $ # . $ '' # $#&4 '
#2#' - $ $ $2# ' # ' $ $ C#O +& '
' $ 2 -# $ ' #$. %$ & . $% & ' # ' , #%!$%
8$' ' $ # # ' --&'' $,' +* % +$ ' $, & '
. ! ' - $ ' & - $ # . $ ' $ #$'
' ' $ ' $* ' $ # #+$! ' # ' . $ $
' $ ' ''' $' -# $ $ ' $ # . # ' ' - ' %$ - ' $ # : $ $
' $ &'' '%# $ ' # ' % . ' $ $ % ' *% #
' $! %$# ' $% $ '' # ' ' - ' $4 $ ' ' ' $ $# '
' $ & ' $:$+$ ' #&%# ' ' -# $ ' $
&!%# #&%# ' ''% - '# ' %# O ' $
'#+ $,' +* # #%* %#+ ' # ' ,' -& 2# $,' +* '$



ˢ$,ˢ %$ ˢ#ˢ 'ˢ$ˢ $ ˢ%#ˢ-$ˢ ˢ:$+$ˢ #&%# ˢ
#ˢ ˢ#ˢ ˢ$%ˢ # ˢ&$ˢ ˢ'ˢ$ˢ #%. &/Å
$2',ˢ ˢ'#ˢ ˢ ˢ% 2$%ˢ %.$%*ˢ.&-'ˢ
.ˢ$ˢ:#++ˢ/ ˢ%.$ˢ,ˢ'#ˢ ˢ'ˢ$ˢ#-$ˢ $%% %*ˢ
ˢ #+ˢ# ˢ'ˢ$ˢ%ˇ ˢ'#ˢ ˢ'ˢ$ˢ# $ˢ $%% %*ˢ
ˢ #+ˢ 'ˢ$ˢ''#%# $ˢ# ˢ&$ ˢ ˢ'ˢ$ˢ:ˢ%,#ˢ %ˢ
&%#ˢ ˢ %ˢ -#ˢ &+,2 ˢ !ˢ''ˢ.
$ $,# ˢ'ˢ$ˢ .ˢ& # ˢ ˢ'ˢ$ˢ:#& # ˢ -'ˢ $%$ˢ
+$* ˢ'ˢ$ˢ ˢ#'#ˢ ˢ ˢ'ˢ$ˢ% 'ˢ Kˢ '%ˢ
OG)ˢ ˢ'ˢ$ˢ.'#ˢ ˢ %+$ˢ ˢ # # $'ˢ '#,ˢ ˢ 'ˢ$ˢ
,2 ˢ#''#%ˢ ˢ'ˢ$ˢ #,ˢ ˢ U !ˢ !ˢ'#ˢ ˢ$ˢ
#*ˢ'ˢ$ˢ'' % ˢ'ˢ$ˢ &!%# ˢ-'ˢ &%% & ,ˢ %#ˢ
#ˢ #%#ˢ'ˢ$ˢ '$% #ˢ$ˢ $ˢ#,%$ˢ 'ˢ$ˢ+$#& &ˢ'' #ˢ
- S&$%$,ˢ +*ˢ $ˢ ˢ# ˢ,ˢ'ˢ$ˢ &ˢ #ˢ ˢ 'ˢ$ˢ
C#& # ˢ 'ˢ-'ˢ $ -ˢ$ˢ 'ˢ$ˢ -ˢ *ˢ.ˢ%$ &!$ˢ0 ˢ +#,ˢ
#ˢ 'ˢ$ˢ'#ˢ ˢ:$+$ˢ ˢ(ˢ$ˢ ˢ'ˢ$ˢ# -ˢ$ˢ > $#,ˢ
' ˢ$ˢ#%''# &%#!$ˢ#ˢ ˢ#/ ˢ%$ ˢ ˢ(&ˢ *ˢ'ˢ$ˢ
#ˢ-ˢ$ˢ ˢ%$ˢ&#ˢ #'#
' ˢ' ˢ$ˢ ˢ%ˢ --&''$,ˢ 'ˢ$ˢ:$+$ˢ #&%# ˢ$ˢ%$ˢ#ˢ
$4 ˢ 'ˢ$ˢ - & %*ˢ -#ˢ$ˢ'$ %ˢ&$$ˢ %ˢ
'$%$ˢ ˢ ˢ &.$ˢ ˢ ˢ +$ˢ,ˢ& ,ˢ'$%$ˢ# $% %ˢ
'$ˢ$ˢ ,&.#$# ˢ,* # *ˢ ˢ #ˢ$ˢ&ˢ,$%ˢ 'ˢ$ˢ %$ˢ! ˢ
'$ˢ$ˢ %ˢ #ˢ,ˢ'$ˢ !% """#ˢ'#ˢ'ˢ$ˢ$ˢ #&%# ˢ+$!#ˢ
$%# ˢ,ˢ''% $% *ˢ ' -'ˢ #ˢ &% 'ˢ$%ˢ,2 ''$ˢ
& ,$% 'ˢ$ˢ #ˢ$ˢ ˢ'' %$ˢ#ˢ ˢ *ˢ """$ˢ +*ˢ 'ˢ$ˢ
#'ˢ$ˢ#ˢ 2# 'ˢ$ˢ!$ˢ !%#''ˢ-#ˢ,2 ˢ ˢ
'ˢ$ˢ'' -'ˢ#%$ˢ &ˢ& ˢ$%ˢ'$ˢ$ˢ ˢ$ˢ -#&%$ˢ
'ˢ$ˢ &%# ˢ'' %ˢ''$% *ˢ -#ˢ$ˢ ˢ'$ˢ'' # ˢ
'ˢ$ˢ &!%#ˢ ## #$#ˢ 'ˢ$ˢ:$+$ˢ #&%# ˢ - ˢ
% '5$#ˢ ''$ˢ '#2$ˢ ''$ˢ $%2$,ˢ 'ˢ$ˢ #.$ˢ



'#['#2$ "& ' %'[#.$ *['#' +$ %$ '$ #,2$ '
'$ & .$# ' .& .$ '#'# ' $%$ $%$-$, '
'$ - $ %* ' '$. ['$*' .#* +$ /$, %
*#'$ & '' ' $ #&%# [#%, '$ % $% '
' $ #+# '#$# ' #$ ' '#' $ #+# '#$# '''% -$ [
% '$ % -$ &%*+$ %$ '% ['#'#-$% # -& .
&%$[''% 2$ '+*'$ %.$,# [# ' '$ % . & .$
$ %# $*' %$! $, #' %#['. & &+ [
% KMM - ' $ S&$ ' KML $ '
# $ '' & '$, '$ % #% #' %# # #. # -&
'$ - ' # ' .$,# ' '-'' '#2$ - $- $, $ #+.
'[&% ! '$ $ $,# ' '& ,%$ '*$# % ['$ &--$ '
' 4 / ! A #%$ '# '$ %$#) [# / &[+ ,# [
#%$ '# '5 ' $. & %$ # $#) [# / & # 5
-'&) [#+$' \#+$ &) [&% ' $ $ 2$%$! ' #%$
. $ $, ' $ -% '' & ' # # #%& ,'
%# # ' # -'#,0 # / &[' $ #,2$% #%*,'
$% ' $ > %$# [#''''$#% ' ' # # #% - $-%# $,'
,$. & # ' # / & #%$ 2 $$ ' *$#% ' '$% ! ' $.
- %&- $,' ' $ 2 $$ ' *$#% ' '$% $! ' $ -$
' $ # $%[#+$ ' # +' ,# $,' ' $ $ *5
'' *$#% ' '$% ! ' #%$ '#' $, $. & ' #
+ -#'' $% #!$ $ ' # ' ' $, # . # -& ['
# ! 2$% $, +*' # $ ' #%-' ' # $. $
#& $ $ -#'' $ $ GL) ' ' # / & +% &!' '
%$ %-$ $?$ '' # ' &% ! ' $ #% #!#
' $. $ 0 # ' # -$ ' -'+*' . $# ''%$2$ $ '
#+$ $ % . +$! $ ' % $ ' +*' % $ & # . #[
$!# $ %#C# [# , % . $$! ' ' # $ ' 4,'
' $. # $. '' %$
' $. # - S&$ ' !#2$ ' $ $ # , ' '%$$
0

'$ $ %#' *% #! $ #%$ $, ' %$- ! $ '$& $ '
.* -#'#',- 2$ #' & . +$% # ' '%#- !'
'$ "% - "#' $ ' '$. & . $! ' ' 2$%*
$ $ '#' $ -# ' $ #+ ' '' '$ $." * ' $ '
-$%# ' !$. $ -#' !&%$! ' _ '' $. ' $ ' $ '
S& *'#'# % +& $, #"$- #' 2 % &$$ &-'! %
-$! #' '$ S&#%$! '$ % !' 5# ! $' % # ! $!'
' $ $ $ 7 8 #'
'$!*"' # ' -$ $' % # ! $! ' $ $!' ' $S&#'

' +' # %# '"% 2$' '#' #' '$ $" -'
' '$$,' >%$$/ %' '#,' #/$ ' " $ ' '$
- & %*' $% &' $ #"'" * ,' ! $ $ -' $ ' ' #'
% ! ' $ *% # ' #% ' "$ $ 2$, -$% # ,' $ #,'
'$ $. +%# -$ % ' $ $ %#,'
"% 2$ $ +*. '$ -& & ' $. ' $ #'
'$ $. " $ #' &# $, ' $#% 6$ # ! '$
- $ ' U# # '#! ' #" - &$ S&$ - & %*! # ' '$.
& . ' #' -/' ' ' $ "$%'#"' ' $ '
$$! . & . $ ' ' $%! %,$%! $%$5'
$$! '& , $% # , ' +$ $%! ' -#& $, ' +$# .
$ %$ *' - $#$ $, ' %&++ ' &% %$ $#%- '$ $ $%$
#- 2$ *' - ,&- $, ' ,&% ! # $$/ +*' # S&#,'
%& '$ #+ &%$% ! # ,' $ & $, ' ' $ - '' $ $ 4" $%$
' #-#,$'# ' $ & &+$, #''"% #-' $ ' #'
- $ ' $." $!'# "$- #- $ ' '$% $ ' . ,$% '
$*$

' . & . $ #' ! # $! "$-$ $, ' +* $" ! " $ $ '
&" ' #' #%!$ - &% &%% & , $ $, +* " % - $ ' #&V!
% & .)! # ' "#2$, ' '$%$!& #% #+ ' ' '$ $ '
% $ ' $. " $ # +# $. $ ' ' $" ' ' '$
" ' $ $." ' # '# , $ $. 4 8 & # $, ' +*
? ?

C& ' # ' '$! ,$ ' 2 $, ,' '# ' ' '$ $. "$ '
:$%& # $.
'$ $ * ' # $ ' $ #+ '$, # ' ' '#2$
%$#, *' $4" # $, +*' -% '' $ &', &% !' &%
%$ $#%-'$ ' '#2$ ' # %$#, *''&+ '$ ' $ $4 # '
'#2$ --# %$''% ,&-$ '$ ' $ $ ' $ *' #%$
$!%#2$, ' '%# . # - ' , > %$$/ '$ +# $ ' $
&$ ' - ' $, - 2$ $, %# !$, & , $% '$
9 '$* $ *' # ' $ $, -$ # +& ' +*
%#+ # . $, ' $ /# ' & ' $ # ' $
!%# , $ ' $ ' # # &$ '# , +$$ ' %# $, ##'
U ! $ % ' $ ''$, $ # ' - ' + % $ # 2$%.
& $, ' $ # &$ +% /$. '' $ -$ ' $% $ $. # $,
' ! +& ' $ % ! ' ' $, ' $% ! ' $ +# $,
' - ' # $!%#2$, ' $ -% ' ' $. #!$
$2 , $ *' 2$% ' % +*' $ $# *' ' %
' $% -% ' -& & '' #--$ %*''#% ' ' $
. & . $ ' . $ $ ' ' $ / ! ' !% """#
$4 ! ' ' % ! # ' '' #-$ ' # + -/ ,
,$- %# $ ' ' ' #-$ ' '' ' ! # Q#'
. # '#-%$, ' ' $ # -?$ & ' $ * $
- %&- ' # ' %# !$ # ' !$ $%# ''
' &! ' +& ' & $% >%$$/ &$ -$ ' # ' ' !'
' $ >%$$/ +% $ *' # , ! ' # $ +& ' '' #* ' #'
#--& . & # % # . $ ' $#2$ # , %& . 4$,
&'' ' !&%$ ' 2%*/ + % 8#%, -& '
!$ ' !$ ' '& . # +& '$# , #% %#* '
$#! $ # ' +$!' -# $% $, ' '' % & 2$% # '
' $ #%-' $- &%# $ ' $ -#'' # ' $ - & .
#%$ # 2$%*, # ' . # ' $ % ' # +&

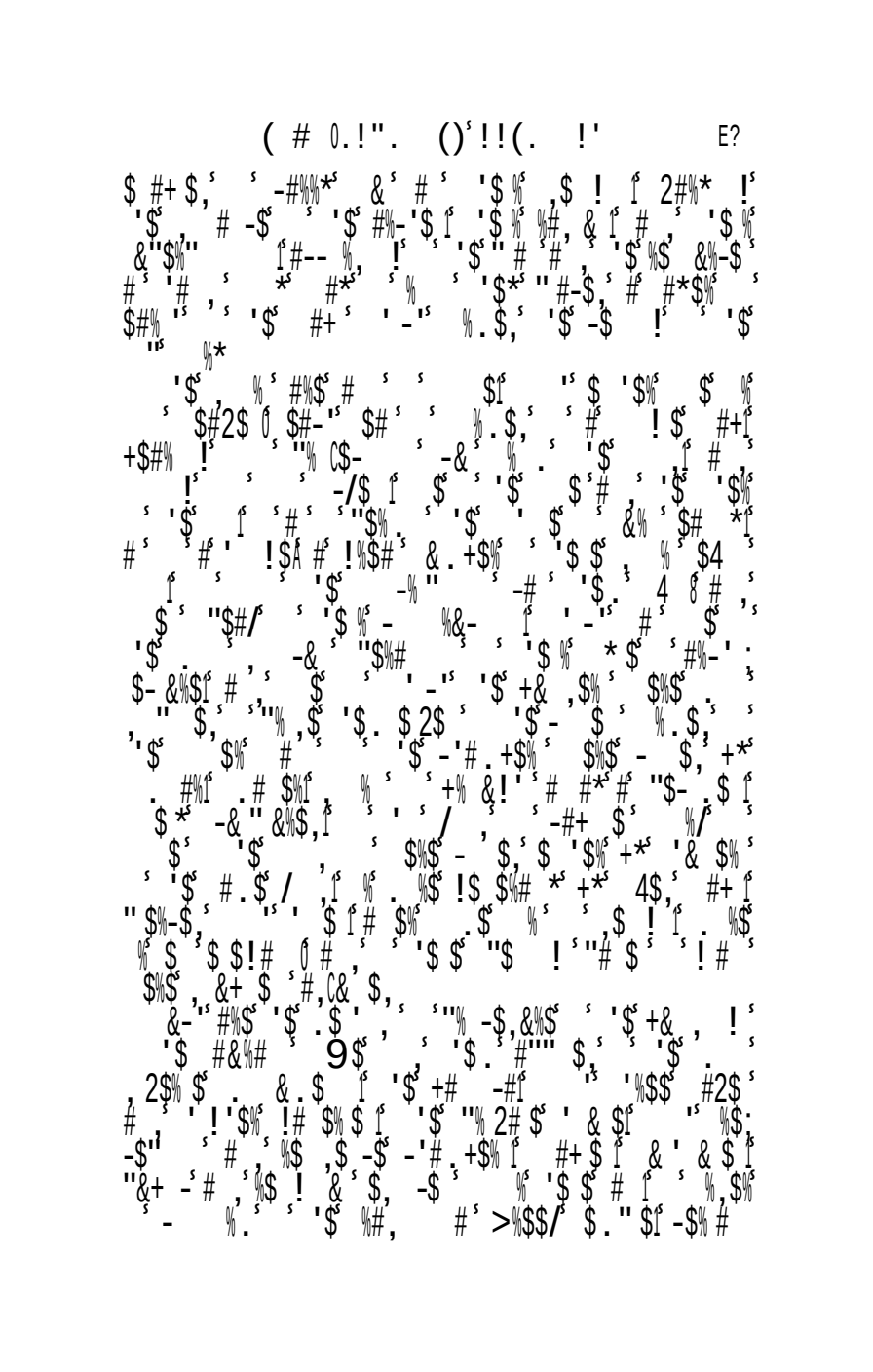
&ʿ ʿ$

'ꕥ $ $!# ʿ % ' # ʿ 2 & ꕥ ʿ %$'' #-$ ʿ +*' # ʿ
6 'ꕥ -$ %#ʿ $% +*' #ʿ '& . # ʿ +& ⌈ # ʿ , ʿ 'ꕥ
#-# 'ꕥ ʿ &ʿ $#ʿ +*' #%!ꕥ # ʿ - #%ꕥ #!$ʿ ʿ 'ꕥ
+# $ ʿ #%ꕥ *$ʿ . %ꕥ !& #%⌈ +$!ʿ &%% & ,$ ʿ +*ꕥ
- - &%ꕥ ʿ #!$⌈ ' -'ʿ ! 2$ ʿ '$. ʿ 'ꕥ #''''$#%,
-ꕥ ʿ # -#'' # ʿ &''

ʿ ' ʿ -& '' &%ꕥ ʿ 4-& $ ʿ ʿ 'ꕥ '#%, ʿ + #-/ +# # ʿ
ʿ 'ꕥ - & %*⌈ -'ʿ #/$ʿ ʿ # ʿ ꕥ -#-*
@ . %ꕥ #''''#%$ Å 'ꕥ . ! 'ʿ %$#, $% ʿ #*ʿ % . ʿ
# ʿ ꕥ ʿ 'ꕥ * $⌈ -ꕥ ʿ ꕥ . ʿ 'ꕥ $#, ʿ + # ꕥ . ʿ
ꕥ &%$ $#%-' $ ʿ ʿ # ʿ ''$ ꕥ ʿ '' #-ꕥ, ʿ ꕥ % ʿ
'ꕥ ꕥ . ʿ $4 ʿ -ꕥ ꕥ . # ʿ ʿ #$ '' ꕥ ʿ . ꕥ # . ʿ ꕥ
''$% ʿ # ʿ 'ꕥ # . ꕥ * $⌈ 'ꕥ -#'' # ʿ $4' + ʿ . ꕥ
. ꕥ ' !$, ʿ +& ⌈ # ʿ ' ꕥ # . ꕥ ꕥ
#%-' %#2$ $% 'ꕥ # . 2$%-' #%!$ ʿ ꕥ ⌈ # ʿ
ʿ $4# : !ʿ 'ꕥ +# ꕥ ʿ ꕥ 2$%-' ꕥ # . ꕥ #!$ʿ
ꕥ $⌈ ' 2%⌈ 'ꕥ %$ꕥ . + # -ꕥ '' ∅ 'ꕥ '' # ʿ ʿ
'ꕥ ꕥ ꕥ $. ꕥ ꕥ $ ' # ˜ # > %$$/ ''$% '' $%# ʿ $. '' $⌈
'ꕥ %$ +*. ⁄$ #+ ' !ʿ 'ꕥ %# ʿ % . ʿ 'ꕥ %# !ꕥ
* ꕥ ꕥ ꕥ ꕥ ꕥ ꕥ $% # ʿ $'' -'ʿ ʿ 'ꕥ ꕥ . %ꕥ $!& #%
* ꕥ ʿ 'ꕥ ''$% # ʿ %, $% ʿ ꕥ 8ꕥ . 'ꕥ ꕥ $ ⌈ ꕥ ꕥ ꕥ
$& -ꕥ ʿ # ʿ #''''% $- #ꕥ 'ꕥ ''% !% ʿ * ꕥ ⌈ # ʿ
˜ ' &% ʿ $ -$ ꕥ #%*ʿ 6$ # #ʿ ʿ *' - ʿ
ꕥ ' ʿ % . #'⌈ # ' ʿ - * - # ʿ
- -$ 2#+ ꕥ $%ꕥ #%ꕥ . ' ʿ ꕥ - ꕥ ʿ %& ʿ
ʿ ⌈ # ʿ $& . ⌈ # #%!ꕥ +# -#
ʿ 'ꕥ &% 'ʿ -ꕥ ꕥ *<⌈ . + ⌈ - $% ⌈ -'&%-' $ ⌈
''% 2# ꕥ ' & $ ⌈ # . $ ꕥ # ʿ ' +$% $ ʿ %& ⌈ # ʿ .
!% &''$ ʿ # . !ʿ 'ꕥ % -/ ʿ ' ꕥ ꕥ # ʿ . ꕥ
+# /$, %$# . ꕥ #% '$% ⌈ # ʿ '#'+$'⌈ 'ꕥ

%$,&-$ʿ ʿ ' ʿ ! $ʿ .# $% #ʿ 'ʿ +&ʿ ,ʿ$%ʿ ʿ $%ʿ$ʿ
+ !$ʿ, ʿ%$ %ʿ ʿ- .+ # ʿ#%-'$ʿ#ʿ# .$#
ʿ-ʿ 2$% 'ʿ !'%$#ʿ ''#-$ʿ 'ʿ$ $ $.$ #%*- .+ #;
'ʿ !
#%# $ʿ #%-'$ʿ#%$ - %&- $ʿ, ʿ# ʿ# ʿ# -ʿ
2#%* !ʿ %ʿ . ʿJ ʿKM $$ ʿ 'ʿ$ʿ #%-'ʿ$ʿ#%ʿ$ʿ
+& ʿ # ʿ . '-'ʿ #%$ʿ 2 $ʿ, ʿ 'ʿ$ʿ # .$ʿ 'ʿ$!' ʿ
'ʿ$ʿ % ʿ. # ʿ ʿ # ʿ#%$ʿ# ,ʿ #+ ʿ !'ʿ''$% $-ʿ *
,ʿ %. !ʿ 'ʿ -$!ʿ 9'$ ʿ 'ʿ +$#% !ʿ

!%$# ʿ %ʿ 'ʿ +& ʿ !ʿ . %$ʿ -#%$ &ʿ 'ʿ # ʿ & &# ʿ
$#-ʿ 2 $ʿ, #%-#,$ʿ &% . & $ʿ +*ʿ #ʿ $ʿ
:: &ʿ,'ʿ - %+$ ʿ %. !ʿ # - % -$ʿ 'ʿ$*ʿ '$ ʿ $ʿ &''.
%ʿ,'ʿ #+ʿ ʿ 'ʿ$ $4 %$. *ʿ ʿ-'ʿ$ʿ- %+$ ʿ #/ !ʿ
-#%$ #, 'ʿ -$ʿ %$ʿ. ʿ # ʿ ʿ - & $%#- 'ʿ$ʿ
2%#!$ʿ .$. $ʿ 'ʿ$ʿ $ $ʿ 'ʿ$ʿ- %+$ ʿ $ʿ &+ $ʿ
ʿ &''''$% #*$%''% ʿ$- !ʿ 2$% 'ʿ$ $%ʿ ¸ # ʿ
! 2$ʿ !%$# $% +%$#, ʿ ʿ 'ʿ$ʿ - % -$ʿ 'ʿ$ -% ''.
ʿ $ʿ ! #ʿ$ ' ʿ$ & ,#. $ʿ #ʿ #%-#,$ʿ +*ʿ 'ʿ$ #. $ʿ
ʿ #<'*ʿ # ,ʿ 'ʿ$ʿ ʿ #+ʿ 'ʿ$ʿ +*ʿ '#ʿ
+*ʿ 'ʿ$ #,ʿ 'ʿ$ $ʿ $ $.$ ʿ
'ʿ$ #%-#,$ # ,ʿ 'ʿ$ #+ʿ '#ʿ 'ʿ$ #%-' $- $%$



NQJ # ‘ ‘$

-# ‘ &‘ $‘ !$ $%#‘ " # ‘ $%‘ $-$ #%*‘
. '$‘ &‘ ,#.$ #‘ #%-'‘ $#,‘ # ‘ +$!‘ 2 $,‘
' %8 # *‘ %$-$ 2$,‘ ‘ ‘ $4 %#, ‘ #‘" $,‘"$,‘.
.$ ‘ %. !‘# . ‘ # !#+ $‘ '$‘ "#-$ +$ $$ ‘ ',‘

! ' $‘+$!‘ --&"$,‘+*‘ #‘% ‘ ‘ " !‘ #+ ‘ ‘
% '$‘ #-#,$‘ '$‘-$ %#‘ & $%- & . # ‘ +$!‘
#%!$% '# ‘ '$‘ '$% ‘ # , $4-$$, !‘ '$‘ $! '‘ ‘
'$‘ #%-' %#2$‘ '$‘ # $%‘ # ‘ %$"#$$,‘ +*‘ # ‘ #%-'‘
! 2 !‘ ‘ '$‘ $. " $‘ '# ‘ -& & ‘ #"""$#%# -$ ‘ $ ‘
$$ ‘ ‘ *% # ‘ -

*‘ ‘ -# $‘ '$%$‘ '$‘ #%-' $- ‘ '#,‘ ‘ - 2$%‘
-h&#%$‘ % - %-& #%‘ "#-$ ‘ % +# ‘ '$‘ "&" $‘ %‘
'$‘$% %‘ $ $- ‘ ' -'‘ & ,‘ '#2$‘ +$$‘ " $,‘ +*‘
%$- .&% ‘ '$‘ -&" #‘ -# ‘ ''#%# $‘ #%-#,$‘ ‘ '$*,'#,‘
.# %*‘ ‘ $ /‘ '#‘ '$‘ -&" # %‘ -#" ‘
'''$% -#‘ %- ,#‘ %.‘ & ,‘ ‘'$‘ @ ,$% '$‘ '$. .;‘
‘ 2$%*‘# - $ ‘ & #!$‘ $2

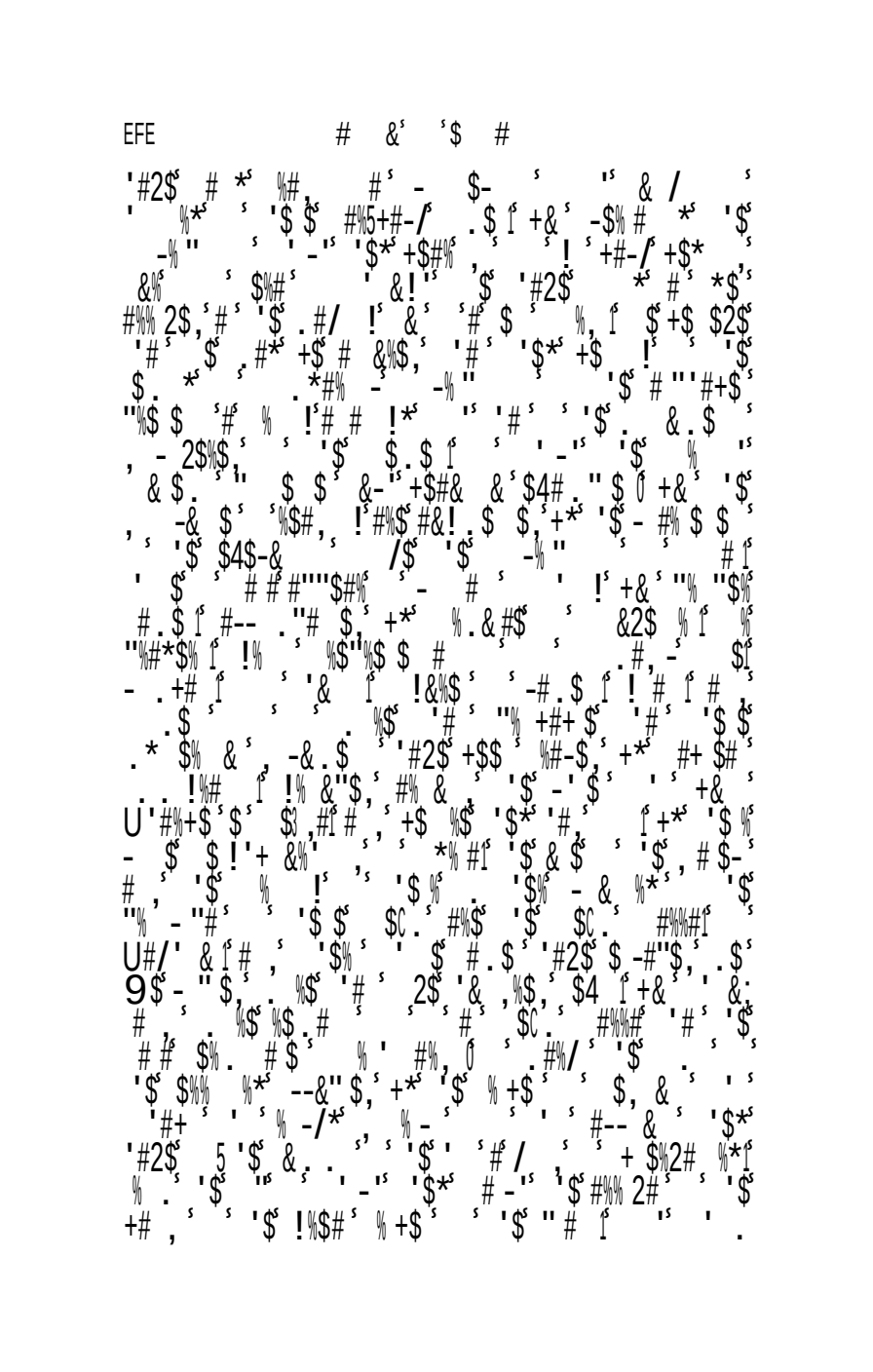
UPPER VALLEY OF THE JORDAN.

%# $ # '$% $# ' '# # * ''%$2 & %#2$ $%1 # $%& % & # $ $ &!' - .+ '& $% $! -#% $#%-'$ $ '$. 2$,$ # . # $% # , -& '& 2$%* -$ %$ ' '& # # --&'' $ +* # '' # 1 #+ & $ 2$. $! +*'%$$ +% #,1 # $ ' $+$'$ '& # $% $% %# '# ,'&'' $ # #*$% $%#+ * $% & # ' # - 2$%$ '' ! '& ' & '' # - 2$%$ '' ! '& 2 ! % & 2$!$ # 1 '& 2$%,&%& - '' ! '' $ # % / ! - %# ' '& #/$,# ' 9 %$#- '$ -$ '' # ' # $% & # % & $* & %$ #* 1 & $% # +& ! & 1 #-% %&!!$, % -/ # ,'#2# '' ' # # '' 2 ! #% # ' & $*$ - & ' %$#-' $4 $ $ $, # -#%''$ ' 2$%,&%$1 %# . $,1 # $%$1 ' '& + #-/ %%$!& #% & & '& #2#0 !%$# '' # $%1 ' *$ #+ %+$, +* '& & 1 ''%$#, %$ ' # $ '& # & ,0 '& $ ' '& %#+ ''$-/ $, '& '' # '+% '' 0 & % & '% &!'' !%# - '' %$#-'$ ' '& ' % $ +$ & 0 # +* ,$!%$$ 1 # & #''''% #-'$,1 -$ & '' # %# & '' #*$, '$. $ 2$ & %$*$ 0 '& '$ -# . & + $# !0 '& -#. $ ' '' % $, ' '' $. $ 2$ - & . *' % & ' '# ' 0 +# , ' & !' ,$%$% $ $ & %$ $, % '' # # MM @ ' & !' !' - %$ ' '' #% % .!' $ ' $ ' # % 2 !' $ %' -#, ' # & %% # ' '& $%$ *' $ & '' - &%$ 1 !' ' # . ' '#2$ ''$% &#,$, & ' '& ''#- - --&; ''# ' & %' 1 '#, '$! ' ' #%. ' # ,

+" * # ‘ ‘$

. #%* ''%$''#%# ‘ %$. ‘,$‘ &‘ '#‘ '‘ %&!! ‘
‘ 2%# $‘ '#‘ +$$ ‘ -‘ ‘ ‘ ‘ .#* ‘ +%#'# ‘# ‘
‘ ‘ '‘ # #‘ - ‘ ‘ ‘ $‘ ‘ &‘ ‘ '#,‘
‘ - ‘ #‘ , '' * ‘ - ‘ $ ‘ '' # ‘ -$ $‘ ‘
&%$ # ‘ '‘ $4‘ ,#* ‘ ‘ ‘ ‘ %/ # ‘ '‘
#%-'#$! -#‘ ‘ . ‘ '‘ '' #-$‘ '‘ .
$%$!‘ ‘ # %& ‘ -'‘ '‘ %#+ ‘ -# ‘ U '#%+$ 5$ 5‘
+$,#! ‘ '‘ 9 ' ‘ & Q ‘ &!'' ‘ ‘ %$ *- .
%&- $‘ ‘ + #-/ #2# ‘ &# $‘ ‘ ‘ ‘ ‘ ‘
''$ ‘ # ‘ #2# ‘ %%$ ‘ % . ‘ # $‘ !+ &% !‘ -%# $%!
‘ 2$% / '‘ -‘ '' # ‘ # ‘ -# ‘ !
‘ %% & ‘ ,$‘ +* # S&#%$‘ ‘ - &%$! ‘ ‘ &%%$‘ ‘ # ‘ '‘
! $ ‘ - %&- '# ‘ 2% '# ‘
‘ #% . '' % # -$! # ‘ ‘ # ‘ '' % +#+ * ‘ ' !‘
‘ %‘ . '# ‘ '‘ '' % !‘ %$ %# ‘ ‘ . ‘ '' % -‘
V '# # ‘ '‘ * ‘ ‘ '‘ % # .-‘ # ! S& ‘
, $%$ ‘ ‘ -# ‘ '#2$‘ $$ ‘ ‘ #&%# ! # ‘,
. #%/$‘ ‘ +* # ‘ &- ‘ . ‘ ‘ % $ # ‘ # .'' ! $ ‘ ‘
‘ $ ‘ !‘ ‘ ' ‘ '' % $ ‘ ‘ ‘ '‘ -# $! '' % ''$% *
‘ -# $! ‘ 2$% ' % ‘ +& ‘ # . !‘ ' ‘ ‘ ‘ '$%‘
#%$ # -$% # ‘ & . +$% -& '' &%$ ‘ ‘ ‘ ‘
‘ %# -‘ ‘ % # ‘ % - '* % # . $ $ ‘ -% #‘
#!$ # ‘ ‘ $% ‘ ‘ # 2$%* ''$-& #% * $! $ - . .
'' ! # ‘ % $8‘ ‘ # # ! # . ! ' - '‘ #* +‘
!& ' $ ‘ ! !#8$. $! # ‘ $ $'' # O # . '' % 2‘
' ‘ & ' $% ‘ % ! ‘ ‘ & '' % ‘ ‘ %#! . $.
‘ ‘ + %% $ ‘ % ‘ ‘ $ *8# $Q !$.
. $ % -# - . + # ‘ # ‘ , % ! # ‘ , $! ‘ # ‘ $#, !‘
#% - - &
'''' . ‘ -# $! ‘ ‘ $ ‘ ‘ $% ‘ ‘ $ ‘ ‘ $ ‘ ‘ $

2$%* ' !' $#, ' ' '$ +$ $' '# ' $ #%$ '$%$
#-$ #-$ # '$4# . '$ $' '# #+#$# '% ' '$
.#! -$ -$ ' -'# - $ '#& ' % '#2$ 2#& $, '
%#+ ' # ' *' $ -%+$ '$ $ '' $ ' $ # ' '
+% -/ % #. $ $, ' '' '%$- & ' $ # ' # ' '
' ! ' # ' 2$% ' $ &4&% & ' '# #-$ ' ' '$
$ ' ' '#+ # #%$+ #+# $, C%# ' '$ %
#-- & ' #%$# $ % ' '$. !%# ' '$ C ' $
%#+ # ' ' 2%# -$ &% $ '$#% $% '# ' $ -
%&- ' ' $ -# $ # #0 2% ' $ $ ' $.#*
$ ' ' . &' $ ' #''% ',&- ' #+ $# '
%# ' . $,' +* ' $ &--$ ' *$#% # ' '
$ '' *. $ ' '' $%$ ' # $% # ' $ ''% ' '
&''' % ' ' '' ' $ ' '$ -&% & '
-%'' ' -' #%$ & , !' - & %*' ' $ & ' $
$ +& ' # ' $ &%% & ' ''* ! ' $ $
%$! -% # ' $ $%. $ ' '' ' ' # ' #
' $ % -/ ' #%$ - 2$%$ ' ' -% ' &, $ * %#-$ '
' $ +#-/ &% #-$ ' ' $ #2# ' $ $ $4 ' #%$
$ ''$- # * & ' / ' 5 '' #% # &%# ' '
''#% #% - # ' ' $ ' ' '#--& . & # ' % &!' '
$ -# $ ' $ ' & $ $ ' - . '
: $. %# $ # 2 ' #, - $ # ' ' ' ,# '
%* $ ' $ #, 2$ &%$:#- + ' . $''' '
' + # ' & 5/ $4# . '' $ ' ' $
$+% -# $ ' ' $ $. & $ # %$# *' #
2 - %* % # . &%, $% = 5 +& ' $ % ' ,
$4 $, $ % # !&#!$ ' $% ' $
'' $ $ $ # ' +$!$, . %$ $ ''$- # * ' $
''& ' $ ' # '' ' #
, / '$ '$% '$; ' ' '$ # #
0 >



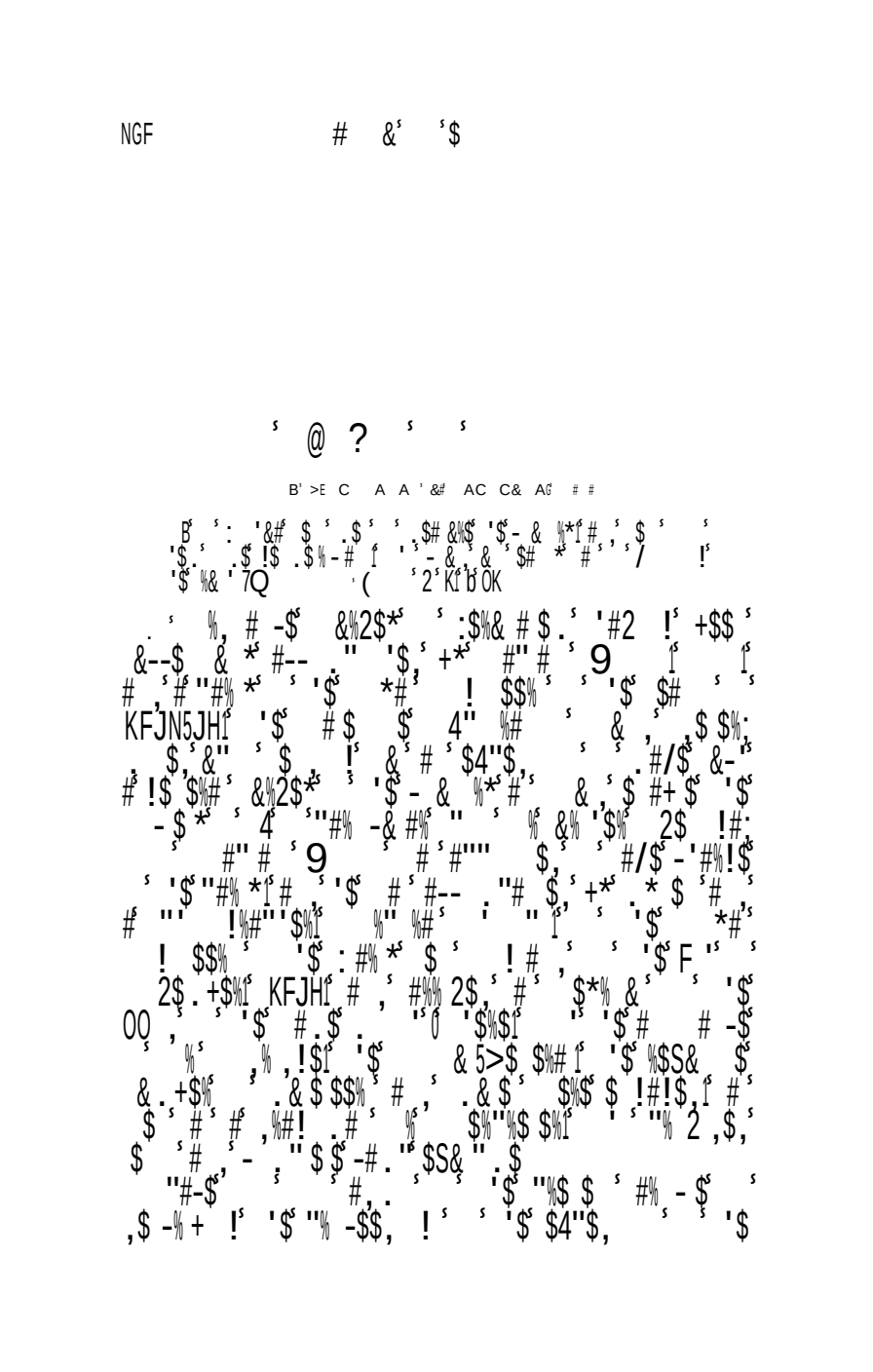
'$*#%$ ''$ #% # % ,$% ''# ' '
'' '#$ $% $% + !$, ''% 2 ,$ &% $ 2$
'# $ - %' -#''#+$ %$!' $ '$$
& $4''$- $, # #-/ 9$ '$:$+$
$ # # $, . & # - -# +$ $$ $
' % 8 # '$% '$ %#, '' % # # , & $4'' %$,
%&
9$ $ ' '$. % !' '' &% -$ % '
$ #% . $, ' & +#!!#!$ # # $% 2$ -' &% '
%#'' %#2$!' %$#-'$, '$ $, &% $4''$, '
'$ 8' ' $ $. $ 2$, '$%$ # , $ '#
'# # #* $ $ &%$ $4# . $ ' $%$!'' '
' '$% & % ,$ +*' '$ # * &% ''$#
'$:$+$ $,$ $ # $4 - 2 -# 0 # $4 $%.
* $ % # - $ ' -' . #* +$ KHM OMM
$$ ' $!' # ' # $ # . $ $%
$ $% $ # $ % .5 -' # . . $ 8$ # +$#-'
# ' $ ' # &$, # % $ -%# $%$ #2#
# ' $ ' % 8 ' $ + . $ -%# $%
% $ 2$. # ' $- ,#%* - $ & '' $, +* # $%
$%&'' ' . $ ' !%$# - $ # ' '' $#
'$ $# $% ' ,$ # !%$# ' ,$''%$ ' # '
%$-$ 2$ ' $ $% %# # % . '' %#%*
#/$ +# / $4-#2#, # $ ''$%. # $
$% - $ $ $ &%''% $
$ 5''%$ $%2$, %& # . # . #%*
$ #+ ' . $
' - '' $, # $ %$ -'$, -# . ''# S&#%$
$ - &%$ ' KMM $$ ' $! $. # %*
# , # $% # $#-' # ! $ ' -$ %$
0 > 0

EAB

NGF # &ʿ ʿ$

ʿ @ ? ʿ ʿ

B' >Ɛ C A A ' &# AC C& A& # #



C &% $* +$ $$ $* &# ' # # $ #%$#
' "") ' % ' $% ' $ # $ +& # *
+$ $$! ,$ -% +$ # +% $ * # " + $ ' $
' , * # - &- ! $- # # -$ &%2$* $
' _ . -$ # ' " $ ' $
%& . $ $ ' " *$ $ $% # $! 5 - $4 # '
$ 8$!$ $%# * & $ + #% ' "! # #% - #
% 8 # . # $ / $ $. $# & ! # ! $.
$# &% ! - # " -/$ " % . # - - " #
&% " -/$ - % . $ $% # - ' $ $. $%-&% #
# $ # $% + #% $ $% # & $ $*% & # ,
! &, $ $ ' $ # !5" #-$ + $ $$ $ $*% & # ,
$%$ #/$ # , & $ " #
, $ $ * 4$, " % $ $%$ -$ $*% & $
$# - #
' $ % " $% 2%* &%2$* ' $. $# &%$.
. $ # +# $ - & %*% & , # # #
#2 &%#+ $ $ ' $! % & , $# &%$. $ # +# $
$ % # " + $ % # - $%% ! $5 # , $,
#-- " ' ' # #- *! $ - $ # $, $ $% .
. $. $# &%$ $ $. % , # ? # $* +* . $#
$ # % & $! $ $%# ,
, %$- $ ' $ &%2$* ' $ - & %* $ % ' $ #
& ' -$ +*$ $$- ! '% . $ " $ * !
$#% * % ' # & , -# +$ #--&%# $ * + $%2$, # $#- '
' $%1 ' $ # & , $ -$ # $ 2 + $ % . $#- '
" #-$ ' $, $%$ -$ # & , $. $ $ ' $
, # -$ +$ $$ ' $ # ! # '''' $, ' $%$ ' $ " $
, $%$ -$ $! & , $ +$! # '''' $, ' $%$ ' $ " $
, $ $4#- * , ' # , & , $#- ' $%
% $4# , " $ " # % # , % # , & ' #% # %$
+ $%2$, ' # $4 # ' $ # &, $ ' # " #-$ ' $

VALLEY
OF
THE
JORDAN

--&% ‘ ‘ '‘ # . ‘ . ‘ '‘ %$#, ! ‘ ‘ # '' -/$ ‘
$% ‘ ‘ +#% . ‘ ‘ $% $ ‘ ‘ , ‘ # ‘ ' ‘ & ‘ # ‘ # % #''''% 4 ‘ .
:. # ‘ ‘ #%% 2$‘, # ‘ ‘ ‘ ‘ # ‘ & ,‘ $ ‘ ‘ ‘ $%$
:: ‘ ‘ *‘ '‘ 2$‘, # ‘ ‘ ‘ - ‘ _ &% ‘ ‘ # ‘ # ‘ *‘ %$S& %$, ‘
$%2# ‘ &-'‘ S ‘ QH ‘ $$) ‘ #%‘ + # $ ‘ ‘ # ‘ +*‘ ‘ .
$% ! ‘ '‘ $. ‘ ‘ $ ‘ %$- # # -‘ /$ -'‘ ' ‘ $ ‘ *‘ ‘
-# ‘ %$- ! ‘ ‘ # ‘ -‘ ‘ $ ‘ '' % . $ ‘ $# &%$ ‘ # , ‘ ‘
2#% $ ‘ '' $ ‘ ‘ ‘ ‘ !% . ‘ ,
‘ -& #% ‘ #- ‘ ‘ ‘ $4 ‘ ‘ % . #/ ‘ ! ‘ # ‘ &%2$* ‘
‘ $ ‘ $A ‘ ‘ ‘ - ‘ & % *‘ ‘ &‘ ,‘ $‘ , -'‘ ' ‘ $ ‘ #, C ‘ $
' ‘ '' B ‘ ' ‘ ‘ ‘ ‘ - ! ' # ‘ 17 % . ‘ ‘ ‘ ‘

#% !' % .'#' & & .#' .+' ' '. & #' .
'2$% / !' '"% !' #'$- # #'-'#' %#+'
2#' $'*' - . .'$ -$,' '' '#' # #'-'#' #' %#+'
% .'$' 2 #!$' &%' -#' '' -'$,' #' 2$'
!% 2$' +$ $$' %%$' +$' '#'#%$' %*#' -'
$%' $# ' '$' $ 2 #!$' # # ' '$'
%$#. ' '$' . .'$% 2 #!$' # # ' '$'
%$.#' ' '.' $' % -# ' ' - %- !' '$'
#' $' ' '$' 2 #!$' #%$' '$' %&' ' -$' #. $'
%' $% - *' #$ #%$#' ' '''' $ $%$ $%$ '$ 2 #'
'' $' #' $ $%' ' ' '$ %' ' '$'
''&+ -' '$# %$' '$' & ' '$ %$. '% ' '$'
-#'' &%$ ' .$%& # $.' '$ '#' !%$#' $ 2# ' #' -
''$ ' '$ -#'' 2$.$ ' ' #- '#' ! #, # % # ' !'
+$#
'$$$' S&#% $% ' # ' &% %' $ % ' . # #'
$ #%' ' +*' #' ''# '' !' '% &!'' $# '$%'
# ' '%&+' #/' +% ! ' & ' '' # -& & '!%# *' . '' '
% ' !' ' #' $!' ' ' OH $$' ' #' ' 2$% / ' !' '' '
U#' ' #' ' '$%$ # ' # +' '$ $ ' # ' '$ '
% $% ' '$ *' # ' '$ ' ' GMM'
*#%' ' !' % ' % '' & '' OHM' *#% ' % ' $#'
' $ '$ $# $% ' # ' $ $% ''$' #%$ 2$%*'
%%$!& #%' # #% ' 5 $ ' # # #*'
' # & . $ ' # + ' /$ %. -$!' '$' ' '
' '''# !' # !' & . ' $ $ # ' '$' +' '
' ' &% ' #' & & .# # ' & ' $% '$ '#'$ '$ #'
. #! -$ ' #/5 %$$' # ' !' ' $ '$ $ #'
'$ '$ ' $#% '$ & ' ' #' !%$# ' + *' $
%& ' !' # $%' # ' ''$ $ %# !' '% &!'' '$ ' -/

&ʿ ʿ$

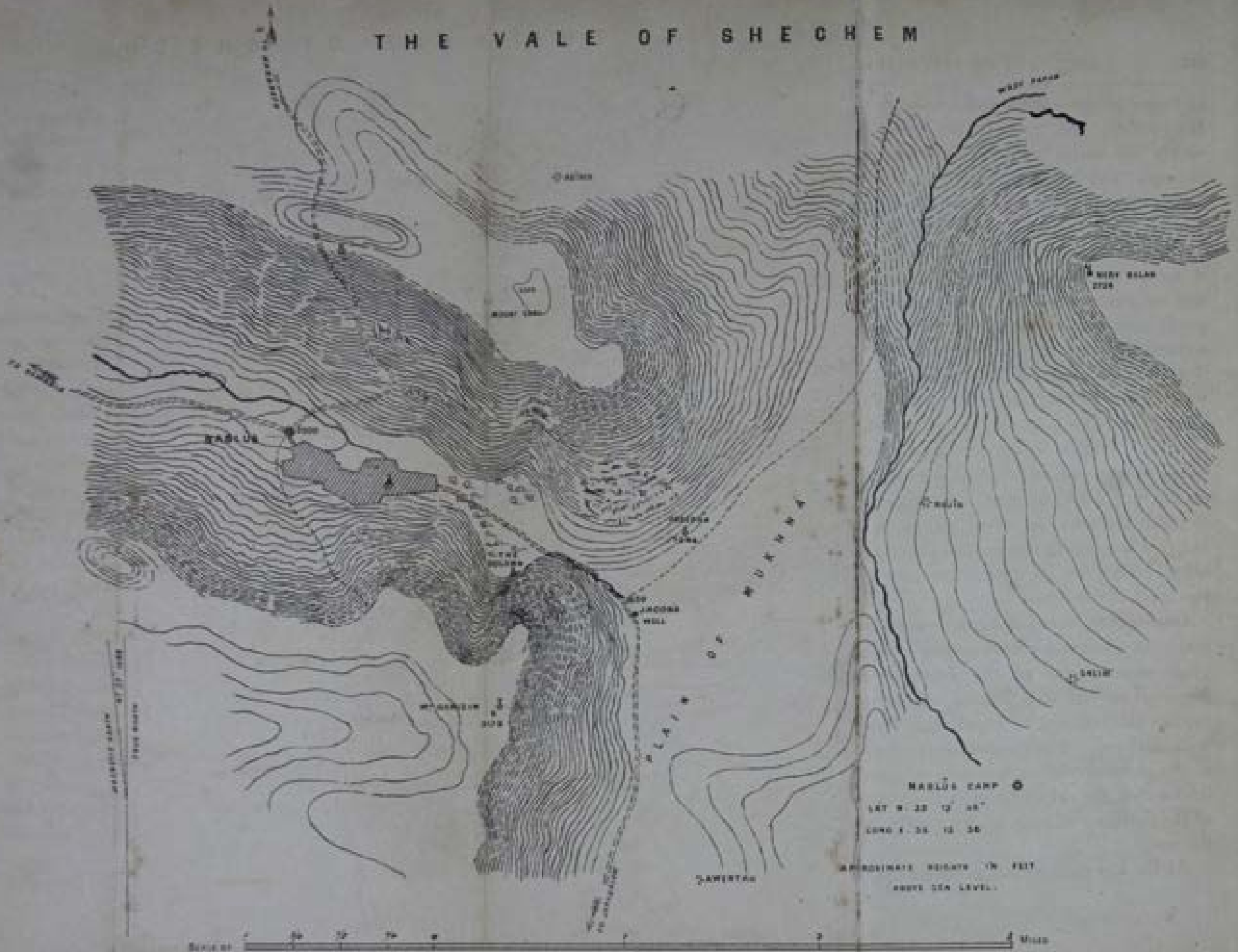
$# ,$% +& '$ ˆ# ʾ %#2$% !ʿ#ʾ. ʿ % -/ʿ ''$ˆ
P ʿ$ʿ, - 2$%ʿ# #%!$ʿ''ʾHMʿ%ʿ>ʿ*#%,ʾ $ˆ #ʾ
'ʿ$ʿ# $%ˆ+&++ !ʿ &ʿ ʾ'$ʿ!% &,ˆʿ%& '$ʾ# #*ʿ
'ʿ$%ʿ& 5!%ʾ %$#.ʾ '$ʿ'' '#% # *ʿ
$ʾ &''ˆ #ʾ $ %$*ʾ &%% &ʾ,$ʾ+*ʿ '#''$ $ ʿ
+# #ʾ- $ˆ#ʾ$ ʾ $2 ,$ʾ#ʿ#ʾ ʿ '#ʾ *ʿ
#%-'ʾ$- &%#ʾ,$ #ʾ% 'ʾ$ 5,%$ $ʾ, #-$ʿ '#2$ʿ
+$$ʿ%$. 2$, !ʿ#! ʿ % +& ʾ '$%''#%ʿ
ʿ'$ʿ''# ʿ& '5 $ʿ- %$% ʿ'$ʿ $ʿ
% $ʿ# '$% .#$% & #ʿ '$ʿ ʿ %$# .ʿ
C ˆ#ʿ ʿ%.ʿ#ʿ #%!$ʿ'' ʿKHMʿ*#%,ʿ ʾ$ˆ,$ #.
'#''$,ˆ#ʿ,ʾ- 2$%$,ʾ'ʿ+&ʿ$ʿ ʿ% ʿ$ '$ʿ#''$4ʿ
'ʿ$ʿ#ʾ '$ʿ %$#.ʿ ' ʿ# #*ʿ #ʿ &ʾ '5 $ʿ
- &% $ #-% ʿ'$ʿ'' #ʿ ' ʿ% +& #%*ʿ ʿ'$ʿ:%,# ˆʿ
-# $ʿ +*ʿ. $''ʿ& ʿ'$ʿ $ $%:%,# ˆʿ -$ʿ #ʿ
#%!$ʿ#ʿ ʿ$ʿ & #ʿ#ʿ#ˆ#,ʿ%$$ʿ ʿ$ʿ#ʿ
#%!$ʿ#ʿ'$ʿ.# %$#.ʿ'$ʿ:%,# ʿ- ˆ'ʿ%ʿ·ʿ
'$ʿ%ʿ'ʿ$ʿ& '$%ʿ%ʾ!$ʿ'#ʿ %#-$ʿ'ʿ$ʿ
#ʿ'-'ʿ #ʿ+& ʿ'$%$ʿ - ʿ.#,ʿ'$ʿ''# ʿ
#%,ʿ'$ʿ & 'ʾ#,#'' ʿ ʿ$ʿ-' $ˆʿ
'$ʿ%ʿ$ˆ ! 'ʿ ʿ$ʿ+$ʿ - ʿ$%$ʿ,$%$ʿ-&%$ʿ
&-'ʿ #ʿ'$ʿ.''%$ ʿ$ʿ 2$ʿ #ʿ$ʿ''$$ʿ
-'ʿ-#.$ʿ ʿ$$/ %#ʿ 'ʿ$% #-$ʿ%'$ %%+$ʾ
#ʿ2ʿ ʿ$ʿ''#%/5 /$ʿ+$#& *ʿ 'ʿ$ʿ''#ʿˆ#ʾ
'$ʿ &%''# !ʿ &4&%#-$ʿ'$ʿ ˆ- %ʿ.ʿ$ %
%$''% A B 9$ʿ'#2$ʿ$$ʿ'$ʿ #,ˆ#, '$%$ʿ ʿ$ʿ
#ʿ'ʿ# *'ʾ !ʿ'#ʿ'$ʿ$#%'7
&% %$- #ʿ#-$ʿ#ʿ4ʿ$ʿ ʿ'$ʿ2# $*ʿ
ʿ#-$% #ʿ'$ʿ$4#-$ʿ''ʿ4ʿ$ʿ'$ʿ''% -''#ʿ%+&.
#% $ʿ& ʿ$ʿ $ʿ$ʿ!%$#ʿ$# &%$ʿ ʿ'ʿ''#%ʿ-$ʿ
2# $*ʿ ʿ'$ʿ &--$ʿ $%%#-$ʿ'% &!'ʿ' -'ʿ '$ʿ
%$#.ʿ''# ʿ+$ %$ %$#-' !ʿ '$ʿ'' # ʿ 2$ʿ

W + $

'$!% & ' & $% '$ '& %#" ' *+$! # '$, # #* # &% (&% $* ' 5 '$ 2# $* +% ! & '$ (& - # # ' $ $ 5U#, %$# . 0 '$ # $% -#%-$ *$ %$- ! #+'$ # #& ! ! ' %$#. ! '#2 !' "#% $, '$#% * # # $% & """ * ! ' $ #% - # % 2& $ ' # %% !# $ '$ & """ $% "#% ' $ " # S&#% $% # & % # / +% ! & ' $ (& - ' '$. # %$# . 0 # ' -/ 2$% / ! ' $ " + $%2# $%$ #/$ % # &, $ # ' , ,#* ' "' !$!%#"' -# * , $ $% . $, ' , $. %, # '$%$ NH $ $ ' $ # , % * $ - &%1 # ' ! +$ $ +# / OH $ $ +$ ' $! $ $%# ' 2 ' ' $ " # ' $ & $, %$#. # -'# $ LM $ $ ' $ % $ ' , " & ' #%, % 2 ' - $. $ #/$ & $ ' ' $ # $% $ $% .) $ ' $ $. ' $ " # . #% ' *1 # , ' $ $% "#% - 2$%$, ' +#+$$% -# $ % $ $ 5U#, $ $ #/$ ' $ "# ' $ $ % * 2$% * !% & , 1 # , -% . # * #% - # % 2& $ % %% !# ! ' $ # ' $. $ # ' # '# % ' $ $ +% ! & $ ' $. %, # ! %!$ %& ! ' % ' # ' & ' 1 # ' JM $$ +$, # ! %$#. ' $ ' $ ' $ # 2$%* * $ -$ ' +$ 1 # ' $ % 2$% $ -% $ # ' -$ " #- $ +* # +% , !$ $. $ ' - %&- 1 ' ' %$$ " $ #%- ' $ 1 ' $ # $%1 # ' * GM $$ $ # ' $ ' $ $ $% #%- ' . ' $ * $#%1 ! ' % &! ' ' $ $ $ $% #%- ' * ' $! %!$ - &$ ' % # . $ $ $ & ' #%,1 # ' $ #+%&" * $% # $ 1 ' $ % 2$% & ! ' $ " # & ! &% (&% $* ' $ % '5

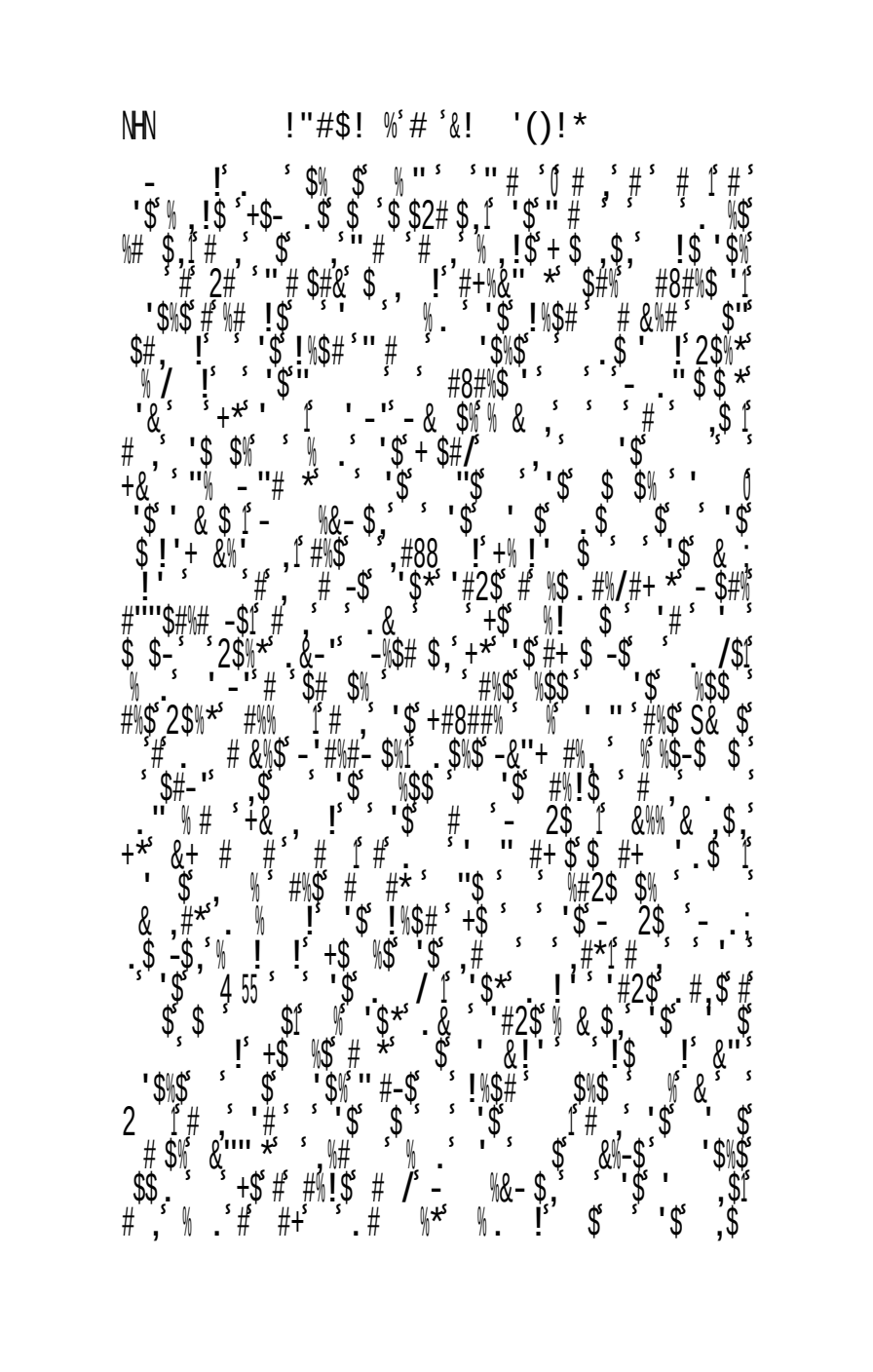
$ ' $ ' $ ' $

THE VALE OF SHECHEM



!+ (F#

&'''' $ ' '$2 #!$ ' # $%! # , - $ ' $ ''% !'
2$!$ # &4&% # ! # , . #%/$, - %# '
!' ' $ ''#%-'$, # #,(!' $%$ ' $ ''$ '' $
'#,' $%$- $,' & . . $%5' $ ' +%# - '$ ' $ ' $ #'
% $ $% &, $ $ ' $. &, ' $ & $ ' $ ' $
2 #!$ $$ ' ;'' $ $ $ # %#- ' 2 ' $ ' $ %
$% ! '#' ' $* 2% ' ' ' $ ' $ ' $ #* . $!'
+& ' # $. + $!% &'' ' ' $ $%$ ' & *, - % $%'
' $ 2 #!$! # ', ' $ $%$ ' $ $,#*
$ ' #2$ %$#- $, ' $ & ' $ ' ' '
#''' ' # ' + & ,#%* ' . -& ' %#-$! # '
. # * ' ' $ + %,$% ' $ # $, ' +*: ' &# # ', $.
! ' ' $ + & ,#%* #%$ ' *$ ' $ $,(+& ' $
$ ' ' #8 % '' % +#+ * ' $ $ ' #8 %!'
. , ' $ 2 #!$ ' #! !! ' ' $ '' # ' +$ ' ' $
$# , #% ! . #*'' + * +$ ' $ $ ' '' + %,$%
&// / ' $ % +$ #''' # ' $ $ $ # . &- '
$ ' 5$# % - & %*' # ' $*' - & , - S&$%!'
# ' '' +#+ $ ' # ' $ %'' $ $ $4 $, $, # '
#% #' # . # -& ' $ ''$ -& #% $ ' $ % - & %*
. & ' #2$. #, $ ' $. # ' #% *' %#- $ ' & # $$!'
, ' #!% -& &%# $ '' $!' - . '' $ $, - $#% ' $
, +$ % ' $*- & , -& 2# $!# , '' $!' 2# '
''# &% $ # , ' ' $. %, # ' ?# $*
&% %- # # - $ ', # ' # ' ' $ $ *
$ # &%# ' $# &%$ ' ' ' % ' $ ’%$! !' # , ' # '
+ !$, %$ &- # * ' $#2$ % ' 2# $*' >#
# ' ' $ ' %$ ' ' #/$! ' - ' $%$ # ' $, +%#- $, '
$ &%2$*! # , %$ & . $ ' $!$!'#''' -# ' $ ' '
%#2$ ' 2 , ! ' $# $ $% ' # ' $ $% ' * $ ' '
2# $* ' $%$! $ $% ! \$+& $%% %*! $
, ' -'#%#- $% - $# &%$ ' #% ' % ,!$ '



'$ # $% &$ ' % &!' 2%# #" ! # , - $- # % &!' +$! ' % $, % / ' 9 ' $ $%#-'$, ' $! $ & , # !%$#' - & $% $ % $ ' $ $ %' - $ ' $ $ ' $! # !' $ % &% * ' $. 2$, '$ # $%! # , #''''$#% !' ' &%%*' $. $ 2$, '$ - $ $, $ +$! 2$%*' . % *! . # , $ %& ' , # . ' $ & # ' $%$ $. $ $ $ $ - $- $, ! # , - . . $ -$, ' # -$ # , '(& . '' #+ & ' #' " #* & ! #*! $ ' ! . $ # , '" - '$% ' * ! ' # ' %$- 9 $ &, $. *' & ' & $% $ 2$ ' $ ' # ' $ '$ '% !! ', $ % ! ' $ $, -% '#2 !' % . $, # #%! $ - %- $ % & ' & ! $ $ * & ! ' %# $% # $% ' &! ' ' !%$# & ! ' $. $ #! $, # . $ - $, # ' & ! # , $$. $, ' %$! #% & ' # # %& , $% ' $ *' , _ $ $ ' $ % - &%#! $ #! # ' $ ' $ ' % $ $ % $ S& $! # ' $ - $ $ $ &'' $ ' % $ $ $ / ! ' $ ' $. $ -# . $ _ $ &' $ ' $, %# ' $ # $% ' # ' - ' $! ' $. ' $ ' $ $ $ $ ' # ' $ $! ! ' & $ # $, # $ & * , #% & ' & :& +$' ' & ' # % ! ' ' -# . $ ' #' , #''' $#% $ ' #/ $, ' $ % &% ' # ' ' $ < # $% ! ' % &! ' ! # ' $ $, - $ # , ' $. # $ $ ' '#2 $ ''# $ -$ $ &! ' # , #% / , $ $ ' $ # & - ' # - % ! ' $. $ # ! ' $ ' $ '' - ' $% ! ' # ' ' $, & ' . & ' #2 $ $ +$ % $ ' $ * - & , # ' #2 $ ' # , ' $ % & % # ' $ $ ' " % ! ' #% ' +$ - . % -/ * # ' +#%% $! # , ' $ $ $ - ' . ' . #/ $ ' $ # , +# #8#% $ ' $ ' #''' $#% . % +$#& & D 2$ * ' $ ' ! ' & ' # ' +* ' , %$#%* # ' & '' % #+ $ ' ' ' ' ' '' $ $ +$#& * ' , ' $ '' #-$! ' ' #, ' # 2$%* . $# ' %$''& # $ $$

S& *

#8#%$ '

2 #!

/ #

#-'#% - $ '

'!%$#

%#+ &

KO

$#% *

2 ! % & *

2 #

4$

/$*

2

-$#% *

$#

+ &

> + #

#8#%$ '

2$

9

2$

:

&

%*+$'

!

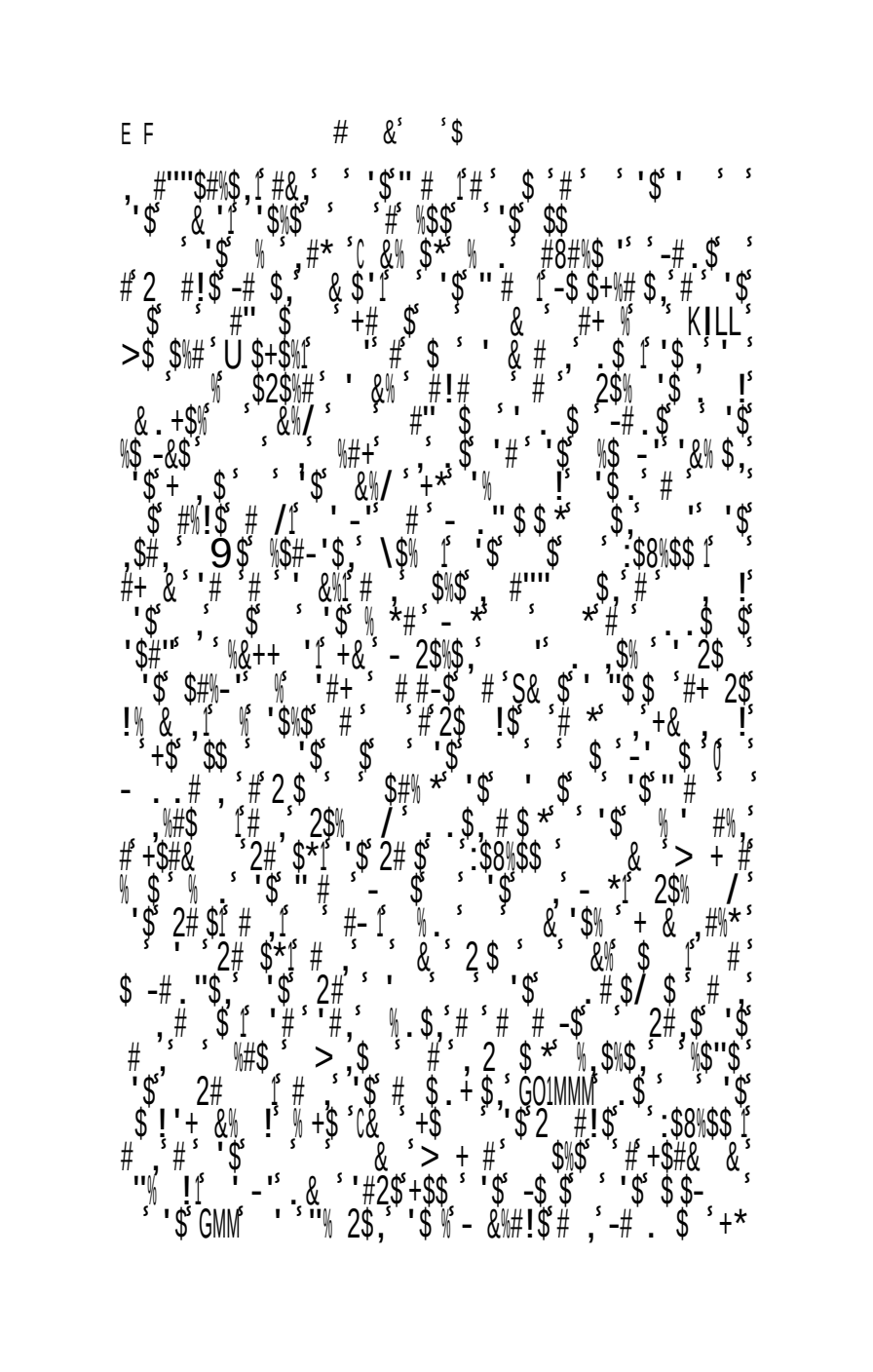
%#

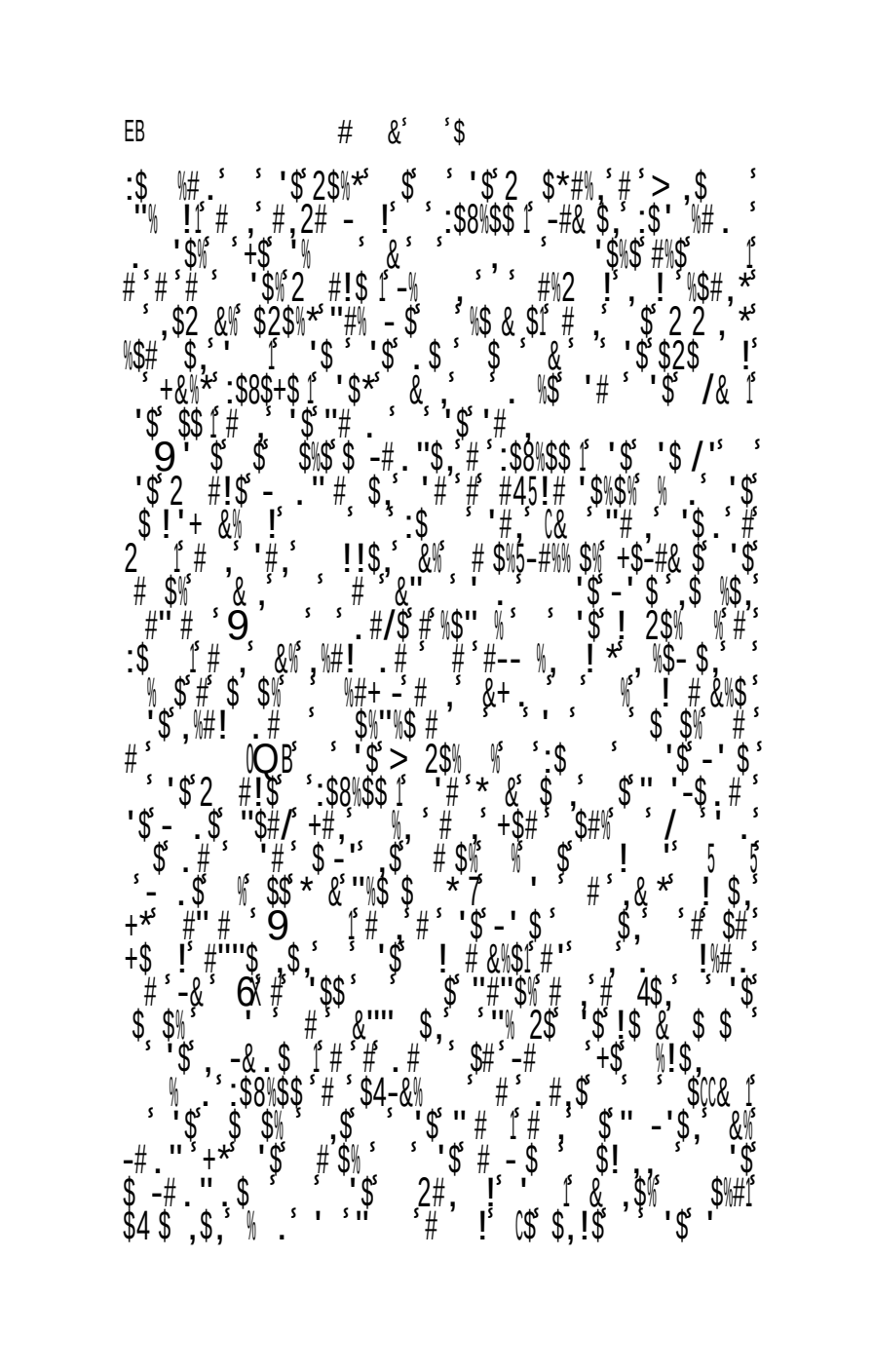
!$

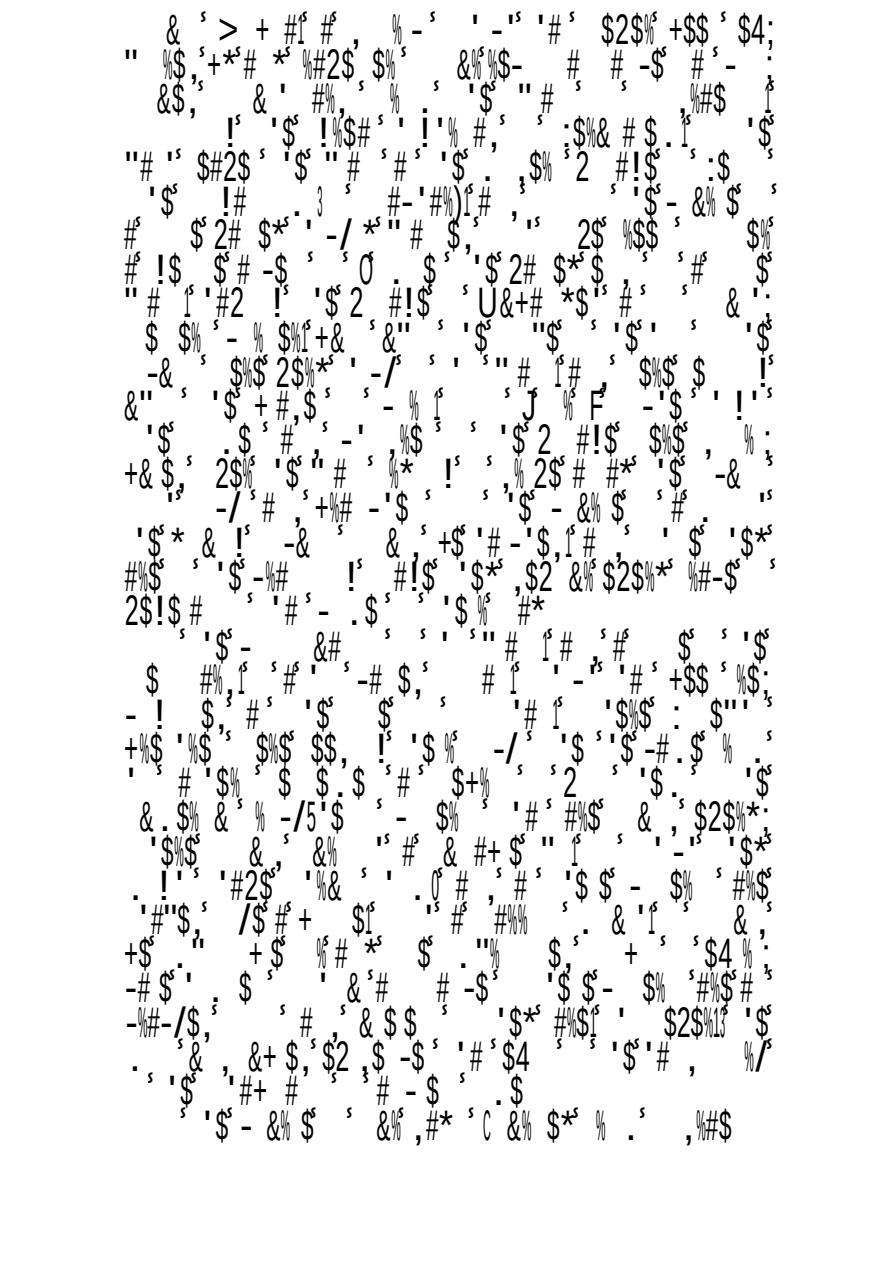
$#/

%''%

>#







+-+ ‘ ‘$

$“ "# $,‘ % &!'‘ #“ &--$ ‘ ‘ #%% ‘ 2# $* ‘
--# # *‘ %$ 2,‘ +*‘ %"‘ ‘" # ‘ # ‘ ‘$ “ #%$“
'“ - '$‘ -'#%#- $% - ‘ ‘ '“ -$ %#‘ ,‘ %
$' ‘ $%% %*‘ $% 2 ‘ ' &% ‘ %#2$!‘
'“ "# '‘ / % ‘ '“ $ $% ‘ '“ & ,$%“ ‘ # 2$%*‘ "% .‘
. $ ‘ ' ‘ # , ‘ '$ ‘ ,$ -$, “ 2# $“ ’‘
#+ &

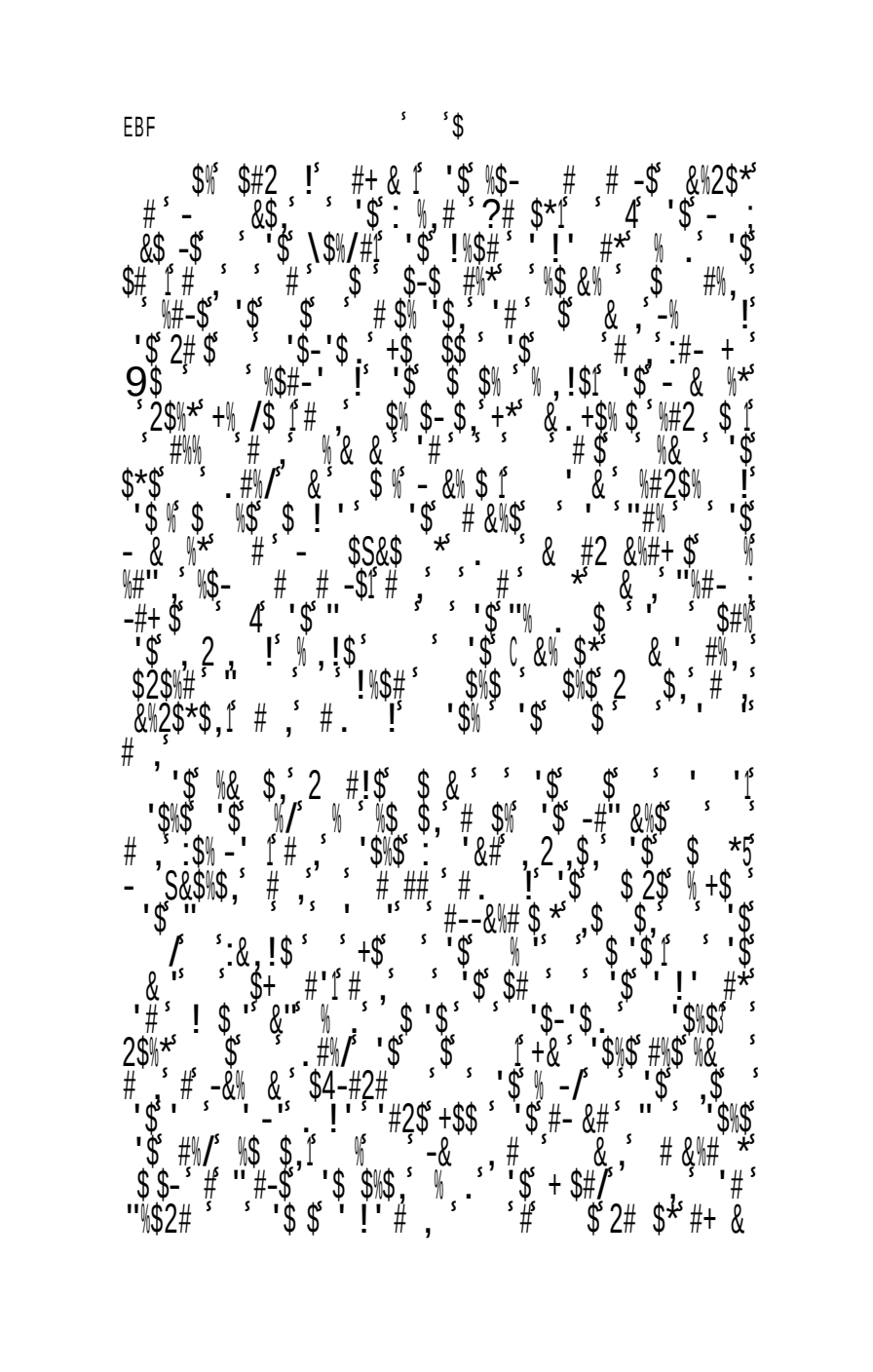
' ‘ " ‘ '“ $ ‘ '“ # - $ ‘ '$-'$.‘ '“ *
‘ $ &!$‘ & % 2# $ ‘ ‘ # $ “ % +$#& *‘ # ‘
&4&% # -$‘ '$%“ #%“ ‘ & # ‘ "# $# $ “ ’‘
$#-‘ '$%‘ # . ‘ $$!‘ # ‘ '$ %+# $ ‘ +& ‘ . “ “
‘ # ' # #"#% # ‘ '$ % & . ‘ '“ * - “ #“
+$#& & ‘ “ 2# $* +$ $$ ‘ '$.‘ ‘ %“ '# ‘
KMM *#%‘ ‘ ,“ # ‘ '“ #%% $ ‘ "#% ‘ # ‘ ‘ ,$!‘
& ‘ + ' ‘ %$- '“ ‘ ‘ #+ & ’‘ ‘ &# $ ’‘
# ‘ '“ #%% $ ‘ "#% ‘ ‘ '“ 2# $ ‘ '“ . & # ‘
' '“ % '‘ ‘ +# ‘ ' # ‘ ‘ '“ & ' > $% 8 . ‘ # ‘ ‘ '“
2# “ $ ‘ $# ‘ # ‘ $ ‘ '“ $ “ “ ‘ “ “ ‘
#’ “ %#+ *-' ‘ ‘ ’ ‘ “ # $% '$ ‘ ‘ '“ “ “ ‘
“ "# ‘ $# * ‘ #-- $ ‘ ‘ -“ . %,# ‘ - & ‘ %’ $# .
#%, ‘ # ‘ ‘ '“ $#$- # ‘ ‘ '“ $ ‘ '“ -$.‘ '“ “
& ’ >$% 8 . ‘ # ‘ ' % &! ' *“ $4# . $ ‘ # ‘ ‘ '“
" # ‘ . & # ‘ -'&%-'‘ - $ ’ +* $4-#2#
‘ '# ’ +$$ ‘ +& ‘ &" $% & ,# ‘ ‘ "% +#+ *
' ‘ ‘ '“ ‘ # .‘#% # ‘ “ . " $ ‘ $4-&% ‘ #
.‘#,“ ‘ '“ . . +# ‘ KOMM $$ ‘ #+ 2$
'‘ 2# $ ‘ '“ & . ‘ ‘ % -/* # ’ +#%$‘ # ’ '$%“
#%“ %& “ & # "‘ $4-$" # -&% & ‘
S&#%“ - &#$‘ '‘ 2$%* ' -/ %& ‘ “ # :& ‘
+$ ‘ '“ & . ‘ '$%“ # +%$#/ ‘ “ $! & #% "‘
‘ '“ ' ‘ # ’‘ # +& ‘ $$ 2# $* - . $ ‘ ‘ % ‘
'“ 2# “ +$ ’‘ # . ‘ '“ & . . ‘ % . ! # 2# . ‘
&%# # . "' '$# %$‘ ‘ $! ' $S&# ‘ ' # ‘ '$

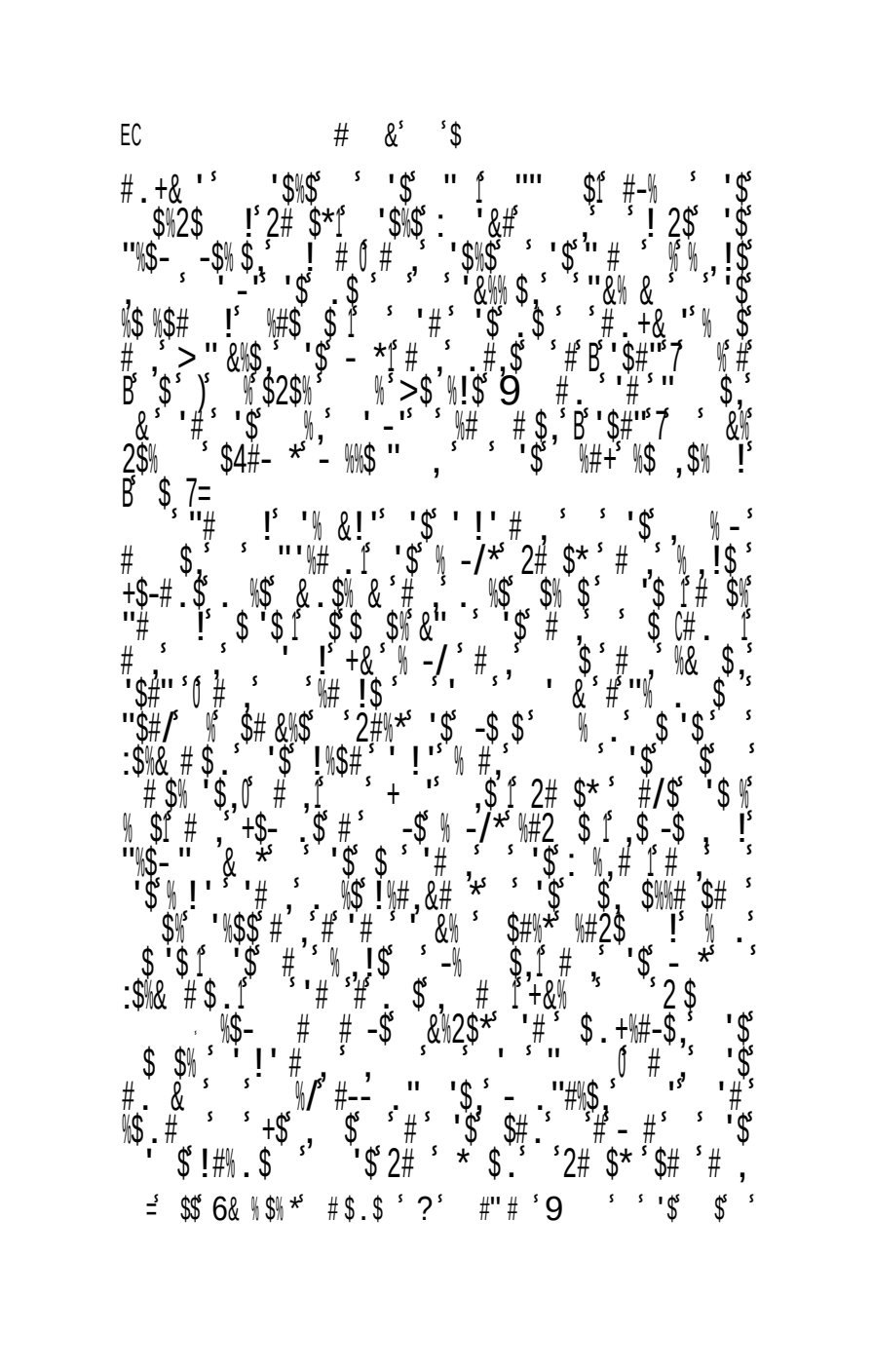
ʻ ʻ) 0 EB

. & # ʻ . ʻ$, # $ * '''' $ ʻ ' ʻ 'ʻ $$'
"$ ʻ & ʻ >$% 8 . ʻ ʻ . #% * +% /$ ʻ +*ʻ #
2# $** % . ʻ !ʻ # $- ʻ # ʻ&%#ʻ#. '''' '$# %$ ʻ$S&#ʻ
+$#& * # ' ʻ !%# ,ʻ$&% ʻ$ ʻ$. ʻ # $%# ʻ2# $*ʻ
$%$ # $.ʻ+ $ʻ, ʻ$ ʻ 2$ ʻ % +$ ʻ ʻ %#$ ʻ& ,$%
: '&#ʻ 4 ʻ % +$ ʻ ʻ >$% 8 . ʻ # ʻ, 4 ʻ ʻ +# ʻ 'ʻ$
$2 $ ʻ # ʻ, ʻ$ #%/ ʻ $%$ ʻ$ ʻ$ ʻ % '' ʻ$ ʻ 2# $ʻ # ʻ
'$ + $! ʻ # ʻ .ʻ -&% ! ʻ $ $%$#ʻ +$ ʻ$ ʻ$ ' ʻ$
- !%$!# ʻ 2 ʻ GO GHʻ # ʻ ʻ - ''#$ʻ$
$& ʻ442 ʻ KK)ʻ ʻ ! ʻ # ! ʻ ʻ ' ʻ$ ʻ # &%#ʻ .
+$#& * ʻ$ ʻ$ ʻ # ,ʻ ʻ$ ʻ$ ʻ *ʻ$ ʻ # ,ʻ ; ʻ$
''%$ ʻ 2$ $ ʻ ʻ &-ʻ # -$ $ ʻ ʻ$ +$ ʻ 2 $ ʻ# ,ʻ ; ʻ$
#+ & ʻ % . ʻ +# ʻ ʻ$ ʻ . ʻ %$'' ʻ$
&! * ʻ ʻ$ ʻ$ 2# $ʻ# ʻ ' ʻ$ ʻ$ ʻ . & $ ʻ$. ʻ
'% / ʻ % ʻ ʻ$ +# ʻ$ ʻ$ ʻ +# ʻ ''$ʻ ʻ$ * _ !ʻ ʻ
,ʻ # $. ;ʻ - . +ʻ ʻ$ ʻ ''$ʻ ʻ >$% ∞ . ʻ ʻ$. & .
ʻ+$! ʻ ʻ ʻ$ ʻ$, !$ ʻ ʻ$ '' # ʻ &/
%$') ʻ# ʻ$ # ʻ# ' $# ʻ ʻ$ ʻ ʻ$ ʻ :#- + ʻ
9$ ʻ$ ʻ$ ʻ$ ''$-$ + ʻ ! % & ʻ, ʻ$ ''&%-'# $ ʻ, ʻ$ % . ʻ$
. $ $ ''ʻ . $ ʻ #% % . ʻ$ ʻ$ ʻ$ ʻ$ ʻ$ ʻ$
+$$ ʻ ''$ $. + ʻ ʻ$ ʻ % # ʻ . $ ʻ$ ʻ$ ʻ$ ʻ$ ʻ2%
.#% ' # ' #-/ $,!$ ʻ # , ʻ$ ʻ$4 $ -$ ʻ
$ ʻ # '' #-$ ' $%$ # $%5 '' % ! ʻ #%$ #+& , #
'& - $ *%$. #%/#+ $ ʻ ! 2$ ʻ$ ʻ# ''$-& #%
%*
ʻ ʻ$ ʻ$ ʻ$ ʻ$ ʻ$ ʻ %/ ʻ - $#% & ʻ$ & ʻ
ʻ ʻ$ ʻ$ ʻ$ ʻ$ ʻ$

EBB # &ʿ ʿ$

-# ,ʿ ʿ 'ʿ ʿ #ʿ &ʿ ,ʿ 'ʿ #ʿ ''ʿ $ʿ $- *ʿ
! ,ʿ# ,ʿ# $ʿ 'ʿ &ʿ&#ʿ#. &ʿ ʿ ʿ #ʿ #ʿ 'ʿ, ʿ# / !ʿ
#. ʿ !ʿ ʿ ʿ %/ ʿ ʿ #ʿ ,ʿ ʿ ʿ ʿ #ʿ #ʿ 'ʿ, ʿ !ʿ#ʿ
! ʿ % ''ʿ ʿ %ʿ &ʿ 'ʿ #ʿ ,ʿ #ʿ 'ʿ #ʿ ''ʿ %ʿ .ʿ *ʿ $$ ʿ
#ʿ ,ʿ ʿ $ʿ$ʿ,ʿ '% &!'ʿ 'ʿ ʿ .ʿ &ʿ 'ʿ ʿ $ʿ +*ʿ ʿ
%& *ʿ %#+ʿ , ʿ$- $ʿ ʿ +*ʿ *ʿ % $ʿ ,ʿ ʿ %ʿ # -ʿ'ʿ$%ʿ ʿ
% $ʿ # ʿ #%*ʿ ʿ 'ʿ $ʿ ,ʿ ʿ #ʿ ʿ 2$ʿ #ʿ
, #!ʿ%$$#+ $ʿ ʿ 'ʿ & . $% &ʿ / ʿ #ʿ 'ʿ % ''ʿ
- &$ʿ ʿ !ʿ 'ʿ $ʿ #ʿ ,ʿ -%$#/ʿ # ʿ # $%ʿ '#2 !ʿ
ʿ''# $ʿ ʿ, ʿ &!'ʿ 'ʿ #%% ʿ & 'ʿ ʿ & ʿ * $ ʿ
& ''$ʿ ʿ $ʿ ʿ # -* ʿ % -#ʿ -'# . +$%ʿ ʿ ʿ #''$ʿ # ʿ
''% '' % ʿ & /ʿ ʿ #ʿ ʿ +#%$ʿ ʿ #ʿ !& ʿ
'ʿ !ʿ ʿ 'ʿ % ''ʿ -#& $ʿ ʿ %$2 2$ʿ # ʿ
5 #ʿ +$!ʿ $%$,ʿ ' -'ʿ''% ,-$ʿ !ʿ ,ʿ ʿ $ʿ ʿ#ʿ
'$%ʿ #ʿ 'ʿ #, #ʿ & '' $# # $ ʿ ʿ 2 +%# !ʿ
% .ʿ ʿ ,ʿ *'$#%,ʿ#ʿ ʿ &-' !ʿ 'ʿ ʿ ʿ ʿ ' ʿ &ʿ ʿ
ʿ &ʿ,ʿ ʿ 'ʿ#%,'ʿ''ʿ $ ''ʿ % ʿ ʿ ʿ ' & ʿ'ʿ ʿ
$ ʿ ʿ '#ʿ,'ʿ#, %$#-'ʿ$,ʿ'ʿ$ʿ + ʿ .ʿ ʿ 'ʿ$ʿ ʿ
+$!#ʿ ʿ 2$ʿ & ʿ * $ ʿ * !ʿ. ʿ * +#-/ #ʿ
''ʿ + ʿ .ʿ 'ʿ $ʿ ʿ / !ʿ&''#ʿ 'ʿ. ʿ & ʿ'ʿ ʿ
'#, +$$ ʿ $-&%$ *ʿ #ʿ$ʿ ʿ 'ʿ % ''$ʿ #ʿ ʿ '#,ʿ
#ʿ $ʿ,ʿ$% !ʿ'ʿ ''$%# $%ʿ -'ʿ 'ʿ ʿ$%ʿ
'% &!'ʿ &',$$''ʿ !ʿ $$ʿ J -'$ʿ ,#ʿ $%ʿ#ʿ ,ʿ $ʿ$ʿ,ʿ
&2 #ʿ ʿ 'ʿ + ʿ $ʿ #ʿ ''$%$- *ʿ
,%$#ʿ ʿ . $ʿ 'ʿ *$#% 'ʿ . 'ʿ #*)ʿ# ʿ
- 2$%$,ʿ ʿ . $ʿ $ʿ 'ʿ%$. #ʿ# ʿ ''ʿ -'$%ʿ
* !ʿ#ʿ 'ʿ + ʿ & +% /$ʿ#ʿ ʿ# ʿ ʿ#ʿ
$2 ,$ -ʿ 'ʿ$%ʿ +$!ʿ # $ʿ'ʿ ʿ $ʿ #ʿ
$# ʿ#ʿ 'ʿ ''ʿ -'$% &, '#2ʿ +$ʿ +% /$ʿ ʿ'#ʿ
$ʿ &'' 'ʿ $ʿ ''% +#+ $ʿ '#ʿ '$ʿ





EC?

%U & ECA

'$ $#% $ "$- . '"" +#+ * ' %$, % .
'$ '"" $ '- %$ '>%$$/ # ' # , .
$ # -$ % . # *0 # $ ' $ -# 2# .
'# , $ # , '$ '% # +$- ' $ " !
& - $, 2 ,&# * C& *' $ % # ! .
. # & #- &%$% ' ' $ ' $ * #
'$ " $%* & ' ' $ $4-#2# . #*' - ;
2$ $ * +$ - ,$%$, ' '$! %,$% A

' ' $ - # $%*
>%#$- 5 ' $ - # $%*1 0 $%* . #,
X *"'%& # , $ $ '$%$1 '$ $ '$ $ $
' $ - # - $ &$ -$, +* >%$$/
& &%$
$%* . # & #- &%$
'% # $%*
?' %#+ - $%*

/ / : Q '$ 2$%* $%$!' "$- .
. $ - ' # * # $ * +$ %$$ $%% $ ' $ '$ $#, #%$
4 2# $5'# , $ 1 & ' +* #" # 9 #%% $ +$#,
% - "' $#% , 1 % . $! ' $ $ $ - / $ 1
* ! ' $ % -/ # ' $ & '5$# $! $ $ '
# # . - &%$1 # ' $ ' $,$" " 4 *5 '%$ $ $
% . ' $ "%$ $ &% #- $ #- ' $ $ $ '# , $ $
+$#% . "%$ $, $ " $ % $ $ $ 5 $ $ $
! &%$1 % $. + ! ' $, $! $ $ # % 1 +& + $ $2 $ $
% $ "$ $ $ # 9 !$, & % -1 "% +#+ * ' $
$. + $. ' $ & 5> , 1 # ' " + * ' % *# ' " $% $
$#- ' ' # , $ ' $ - # ,' $ $% ' #"'' $#% #+ 2$ # ,
+$ ' $! 0 # , ' $ $1 # -$ 1 '#2$
+$$ ' $%"'% $ $, +* % ' %- ' 1 ' $ % '
& $& . 1 # , . '' * ' # ' $ 2$ $ ' $%$. #, $ %

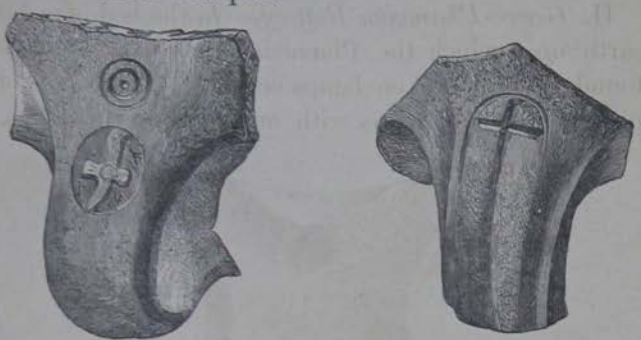
the royal use, or at all events in a royally-privileged manufactury.

A. [See Figure.] LeMeLeK ZePHa.—To or of King Zepha.

B. ———— LeK SHaT.—King Shat.

C. ———— LeK.—The letters which follow are uncertain.

D, E, F. The letters are nearly obliterated on these examples.



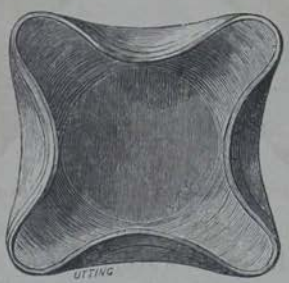
ANCIENT MARKS ON HANDLES OF VASES.

Another vase-handle, found in the same place, and apparently of the same ware, bears as a potter's mark a cross within a semicircular mark. This cross, it is needless to remark, has no relation to the sign of salvation.

When the rarity of Phœnician inscriptions of any kind is taken into consideration, the importance of these fragments, which are probably as old as the Moabite Stone, will become apparent, and the practical importance of collecting and preserving even the smallest pieces of pottery is proved. The letters were not discovered until the handles were cleaned,

after their transmission to England. It may be hoped that future discoveries may add to our knowledge of the royal personages now for the first time indicated, and that the researches of the Association may be hereafter rewarded by the finding of a fragment of the work of the royal establishment of potters mentioned in 1 Chron. iv. 23, as existing at Jerusalem.

II. *Græco-Phœnician Pottery.*—*In* the bed of solid earth *upon* which the Phœnician vase-handles were found, several broken lamps occurred. These are of red or brownish ware, with one, two, or three lips,



and seem adapted for the burning of fat rather than oil. A specimen of the same period, remarkable as having *four* lips, and in perfect preservation, was found in a cave upon Olivet. Lamps of the same design with the former of these have been found in considerable numbers in the Island of Cyprus (*Chittim*), and also in the semi-Phœnician tombs in the rocks of Ben Gemmi, in Malta. They are considered by Mr. A. W. Franks to be of late date,—not earlier,

i.e., than the second century before the Christian æra. The position of the broken lamps and other pottery found with them may be accounted for by the supposition that they were thrown down upon the surface of the solid earth, and afterwards trodden in before the accumulation of the superincumbent mass of *débris*, or they may have been deposited with the earth itself. Underneath this earth, and at the depth of sixty-three feet from the surface, Captain Warren discovered a small vase [see Figure], placed in a

ANCIENT JAR.

cavity scooped out of the rock, at three feet from the angle of the Haram Wall. This vase is of pale red ware, and of a common Græco-Phœnician type.* The fact that the inscribed Phœnician vase-handles were found *above* the last-named lamps and pottery does not militate against the period to which the latter have been attributed, for they may have been

* See Quarterly Statement, 1869, No. I., p. 85.

found in some ancient excavation within the wall, and thrown over it *after* the deposition of the solid earth, and *before* that of the looser soil which lies above it. A considerable number of vases, dishes, and pateras have also been found in various other excavations, and notably in caves about Olivet. Many of these vessels are of exactly the same type as those found in the tombs of Ben Gemmi. They had all, probably, a common place of manufacture in Cyprus or some other of the Greek islands, which, as especially Rhodes, are known to have imported largely to Alexandria. In this last city vase-handles are constantly found bearing the Rose of Rhodes and the names of the Greek potter who made them. One fragment alone bearing a pure Greek inscription was found on Ophel. A dish of brown ware, measuring ten inches in diameter, and found in a cave near Olivet, is remarkable for having its feet perforated like handles, as if for the purpose of suspension when the utensil is not in use.

ANCIENT DISH.

Two circular discs, each pierced with two holes, and an oblong object, resembling an unengraved stamp, found at Saida, probably belong to this period.

Some suppose these objects were used as weights for looms.

Of a different character from the above are a few specimens, less than a score in number, which may be safely asserted to be of the Græco-Phœnician fabric of Cyprus. These are of yellowish colour, profusely ornamented with barred and interlaced patterns of dark red. The designs strongly resemble those seen on the pottery of the aboriginal Kabyle Mountaineers of Algeria, and on that of the almost unknown Riff People of the Empire of Marocco. The largest specimen is a portion of a large single-handled jar, and,

from the perforated stoppage in the interior of the neck, like that of an Egyptian "*Gulleh*," was probably used for water. It was found at the depth of nineteen feet in the Muristan, and is here figured in conjunction

with a smaller fragment from the same spot. [See Figure.] Large quantities of precisely similar pottery have been found from time to time in Cyprus, and a fine collection has recently been added to the Royal

Museum at Turin. Specimens also exist in the British Museum and in the Louvre.

Excavations at the Birket Israil, the Muristan, and on Ophel have produced six fragments of vases, which, with a perfect specimen obtained by Captain Warren from the French Consul at Saida (Sidon), are among the most curious objects in the possession of the Association. They are here described with very great hesitation as belonging to this division, and considerable doubt exists as to their proper appropriation. Several precisely similar vases exist in the *Egyptian* Collection in the British Museum, one of which was presented by Sir Gardner Wilkinson; but in no instance is the locality of their discovery stated in the Register. Two are figured in the "Antiquités d'Egypte," Vol. V., Plate 76, Nos. 8 and 16; but

here, again, strangely enough, though engraved along with specimens of vases from Thebes and Sakkâra, they are simply described as "other vases." These curious vessels are all of an extremely hard, massive, black ware, coated in three instances with a dark crimson glaze, perhaps produced by cinnabar. Five out of the seven specimens, including the perfect one, are in the shape of the *Thyrsus*, or pine-cone, so often represented on ancient monuments and gems as the symbol of Dionysus.* The neck, in the two instances where it is preserved, is short, and the orifice extremely small. The apex of the cone being downwards, it is evident that these vases were not intended to stand upright. [See Figure.] It was difficult to

VASE FOUND AT BIRKET ISRAIL.

assign a use to these singular vessels; but the problem has apparently been solved in the following manner:

* The cone, if such it be, is in each case *fluted*, and may, therefore, represent some other seed or fruit. Three of the British Museum specimens are likewise fluted.

The writer passed a bent quill down the narrow neck, and scraped the inner surface of the perfect vase. By this means pieces were detached of a grey substance, which, on being analysed by Professor N. Maskelyn, proved to be small flakes of decomposed bees'-wax, and amongst these appeared several small globules of quicksilver in its usual state. It therefore seems almost certain that these vases were designed for the importation or preservation of quicksilver, a use to which their massiveness, weight, and the narrowness of the neck, which would insure easy stopping, would render them peculiarly appropriate. The bees'-wax was doubtless used for closing the orifice.

III. *Roman Pottery.*—Considering the great abundance of Roman ware which is commonly found in places of Roman occupation, it is singular that very few specimens have been found in the excavations. A fragment of the so-called "Samian" ware was discovered near Wilson's Arch, in a passage leading

south; another came from Ophel, at the distance of fifty-two feet from the surface, and a third was found elsewhere. This last piece has an interesting potter's mark impressed upon the bottom inside: it is in the shape of a foot, with distinctly-marked and elongated toes, and the letters CANRI.* [See Figure.] To

* Mr. W. Chaffers, in his "Marks and Monograms on Pottery and Porcelain," p. 13, figures a very similar mark, and ascribes this ware to *Arctium* (Arezzo).

the Roman period, also, belong three or four lamps of late date and poor design; a jar covered with circular horizontal flutings of a type common in Egypt, where it was perhaps made; some earthenware water-pipes from the so-called "Bath of Helena," east of Olivet; and the fragments of a large amphora of pale red ware, stamped with a curious potter's mark. This reads BARNAE, and implies that it was the work or from the shop of *Barna* or *Barnas*, a very peculiar and unusual name, and one probably of Jewish origin. The two syllables of the name are arranged above and below a monogram. [See Figure.] This amphora seems to be of late work;

it was found by Captain Warren eight feet deep in the mound at Wady Kelt, near Jericho. A small vase with a single handle covered with a shining brown glaze is also probably Roman; it was found near Saida.

III. *Christian Pottery.*—Of pottery which can unhesitatingly be assigned to the Christian period the Association possesses a large series of lamps. Some of these are distinguished by extremely curious

-% " # - #
-' #%#- $% '-' $4 %$. $ *$. $ " $ # -#
. "5 *"$. %$ 9$ $% ' % $ # *
#- . + . $ *%#-& $ # #% '#!$ &- # '$ >
'$ $"'$%, '$ #-%$, !%# . '$
2$ '$ -/ $ $%# ' '$ '# -$ #%$
$ %$ * #+ $ # . $ #* +$ #, '$
! & ! # "% +#+ * > - , $2 - $, '$ #,
- # $, $ $ $4# % # # ' $ $ $ $ & , ! *" $
#- . + $ $#% + $ ' ! * $ $ # !
! *" # # ' & % $ ' $ & % '
- $ &%*! # , ' $ # . $ %$-# $ $ % ! *" # $
/ ! - . $ *, ' % # # . " $ $
! *" #%$ # #+ $ $ & &# * . +
:%& # $. #. " - '$ #%$ # # #%&, $ # , - $#"
, $ -% " # ' - '$! 2$ # # $- ! , -#
'$ " 2$% *' ' $ B # 7 $ $#% *' '&%- '
:$%& # $. #%$ $! 2$%* ! '$ # 2# 2 5+%# - $, # , $ -/ ' -
%$. , $ ' $. $! 9 % ,
\ +& # %# - - ' $ #%% $ $ +$#& *! +& $
. $% $ * % $4S& ! %#- # , +$#& *! +& $
+* # - # # . 4- > "$
#%% 2$. ' 4 KG # " -# *" -
? '$%$ ' ! % $, # #$, -% +$ # $
B - '$ ' % '$ # , "# . +% - '$ $
'$ % -# , 17 $2 2 L '$ $ $. + $. - '
' % # B '$% '& %- ' 7 & $,
, %$ -$ - . % $ % +$ '% $ 2$ 5
. % 9$ $% # , #%$ # . % % $ - 2$ 5
Ó ú Ó

tionalized in their treatment, and are represented in a distinctive and different manner, occurring in every instance, not as is usual in the West and even in Egypt, in the *centre*, but along the edge and near the outer lips of the lamps, which are pear-shaped, and in no instance round. *Un*inscribed round lamps of a different description have, nevertheless, been discovered, and probably belong to this period. [See Figure.]

The following inscriptions occur; they are written in barbarous Greek, the words being often misspelt.

and the letters frequently braced together or turned upside down. It is noticeable that one form of the Λ which is used, is that which is constantly found upon contemporary work in Egypt, and indeed is frequently employed as a potter's mark for ware made at Alexandria, which seems to have been to Egypt what Stoke and Worcester are to England, and Dresden to Germany.

1. LVXNVRIA KALV *A Seven-branched Candlestick, conventionalized.* The first word is not classical Greek, but the inscription seems to signify "Good," or "Beautiful Lamps."

2. ΦΩC $\overline{\text{XV}}$ ΦΕΝΙΠΑCIN. *A Cross.* This misspelt inscription may be translated, "The Light of Christ shines forth," or "gives light to all." [See Figure.]*

LAMP WITH CHRISTIAN INSCRIPTION.

3. ΦΩC XV ΦΕΝΠΔCIN, followed by two letters whose meaning has not been explained. *A con-*

* Compare a lamp in the Museum at Leyden, which bears the inscription ΦΩC ΕΞ ΦΩTOS, *Light of Light.*

ventionalized Seven-branched Candlestick. There are several specimens of this type.

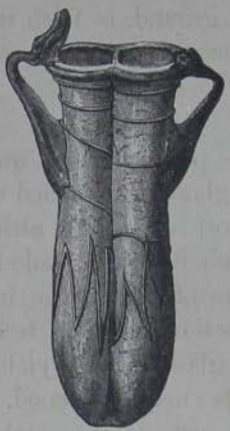
4. The inscription on this lamp appears to begin with the letters ΙΧΘ, which may stand for Ιησους Χριστος Θεος, or it may possibly allude to our Lord under the well-known symbol of the Fish, ΙΧΘΥS, the letters of which form the initials of the Greek equivalent of "Jesus Christ, the Son of God, the Saviour."

Some other lamps have a running pattern of the conventionalized tendrils, leaves, and fruit of the vine, executed with considerable freedom and

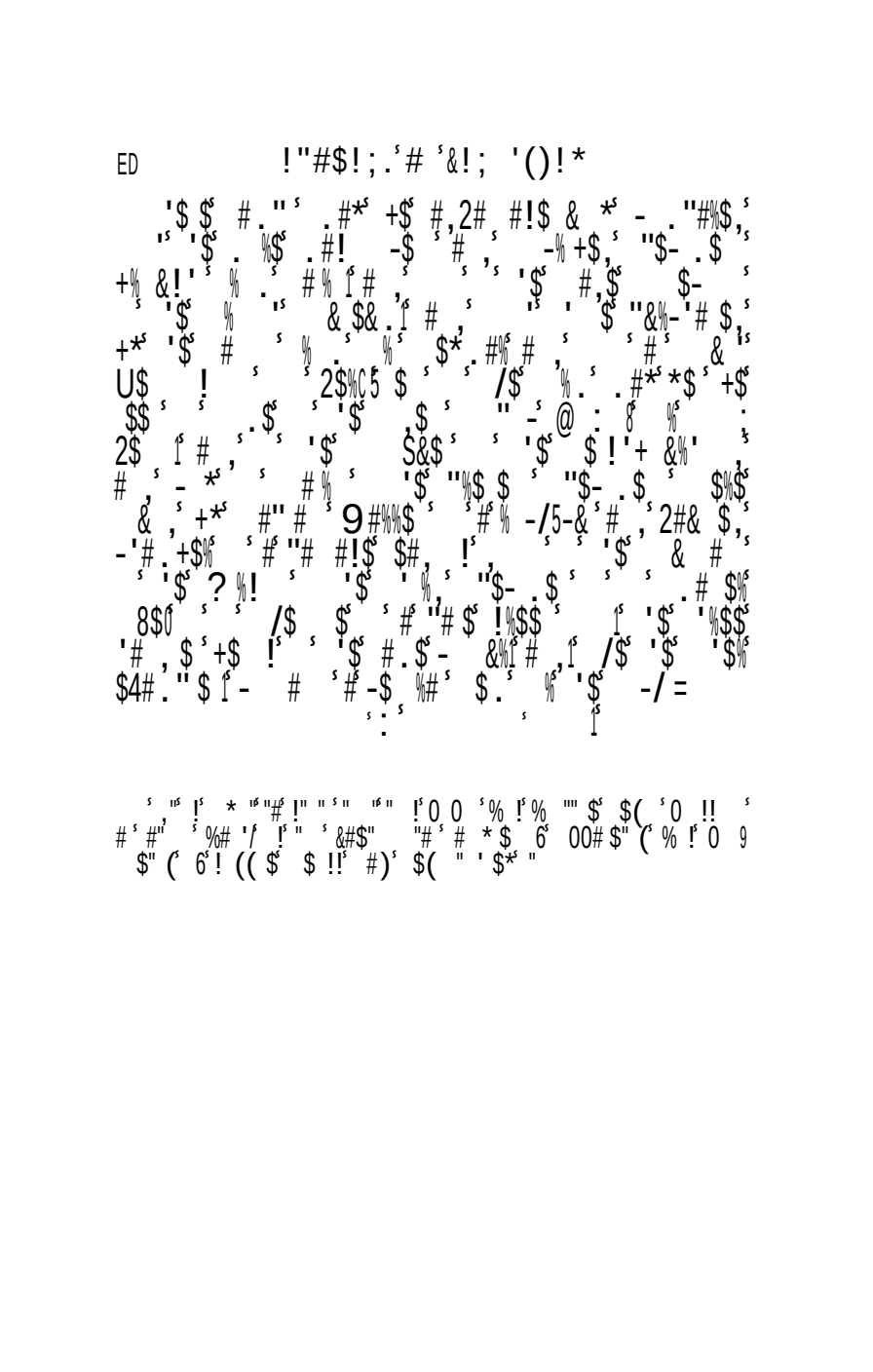
LAMP.—POOL OF BETHESDA.

elegance; but although they exhibit something of Greek freedom of treatment, they may probably be assigned to the Christian period, and the design may have reference to the mystery of the Holy Eucharist. [See Figure.] One of the Jerusalem lamps bears the

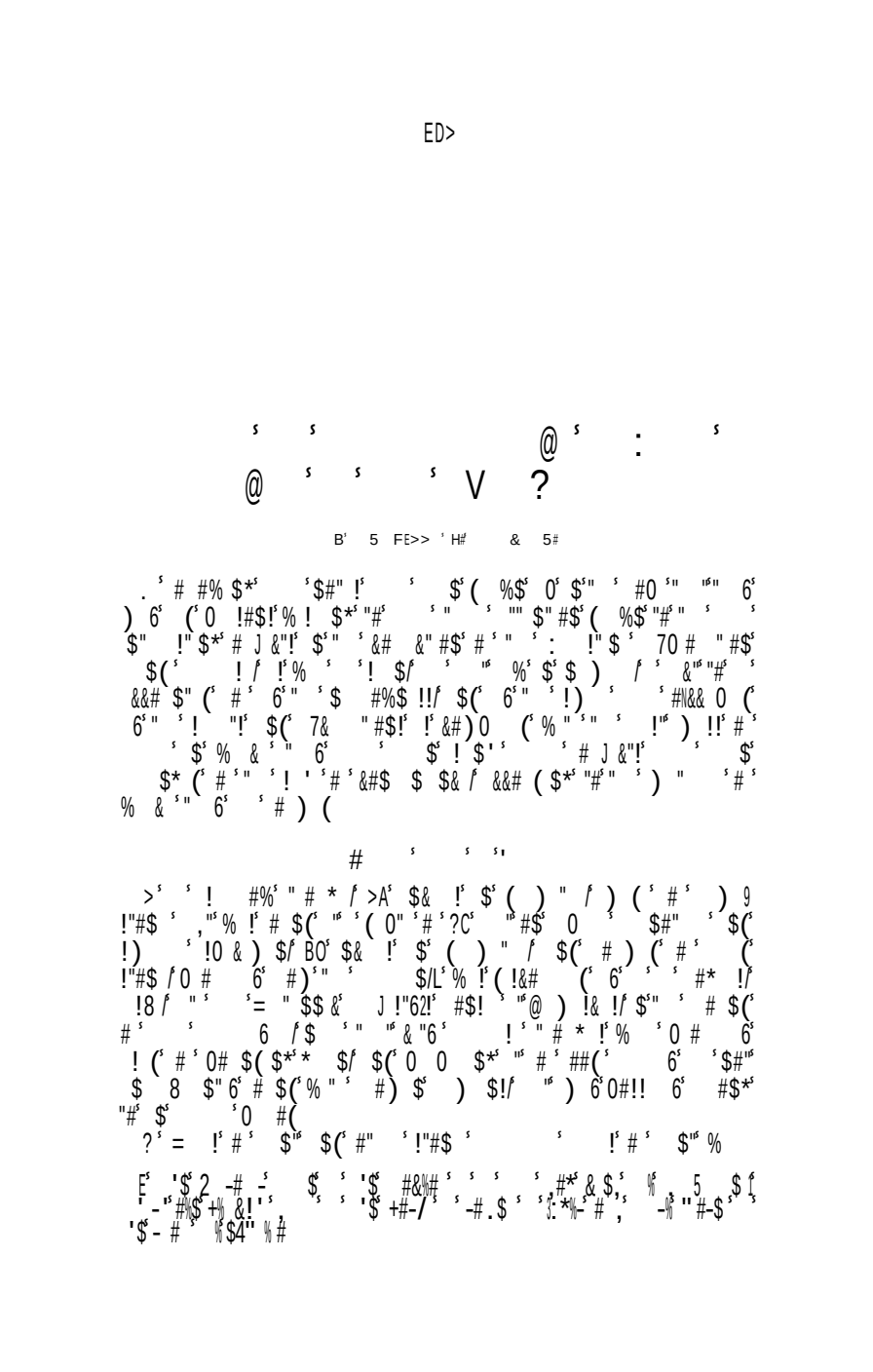
are of a pale green colour, with three dark blue rings or handles, by which they were formerly sus-



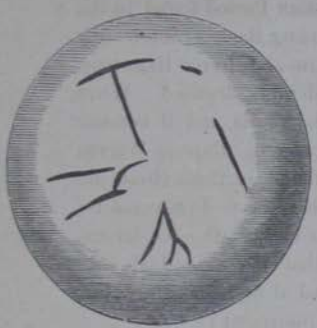
pended by means of chains, and contain perforated stems designed apparently to hold a wick. [See Figure.]

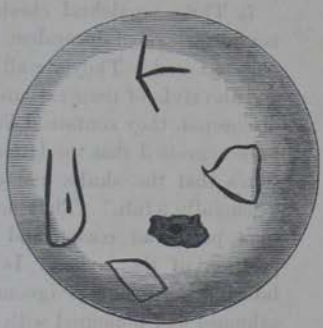


ED>



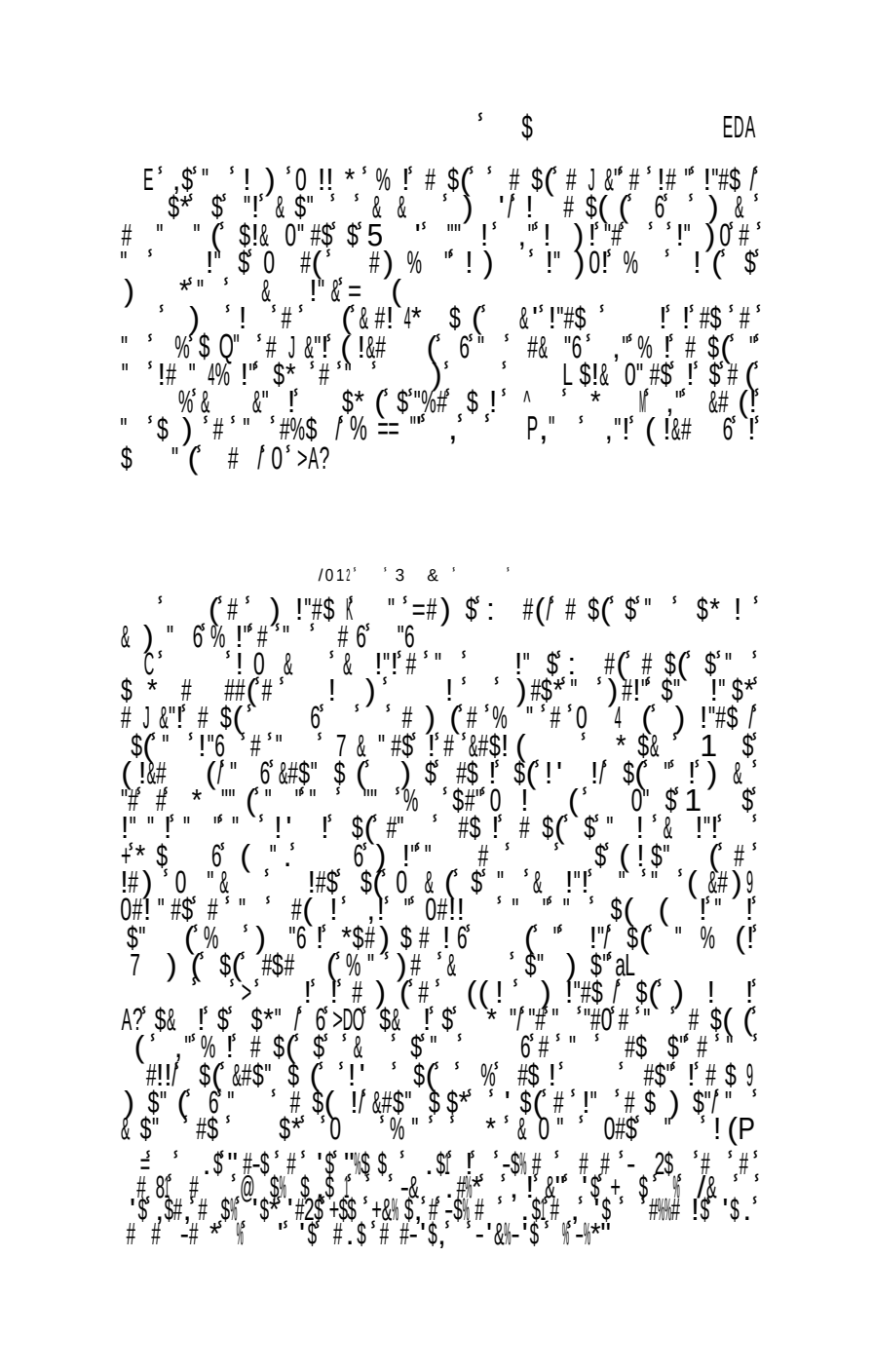
found by Captain Warren, near the Pool of Siloam, in the Valley of the Kedron. Another ball of like size is formed of some hard volcanic rock. Similar balls have been found in this and other countries of Europe. Their use is still a problem to antiquaries. Certain American tribes use stone balls in the preparation of food, heating them red hot and then throwing them into skins filled with water, in which flesh has been placed in order to be cooked. The balls have thence been named "pot-boilers." It is possible that some of the present specimens may have been intended to serve this use, although flint, from its liability to crack when heated, would not be the best stone for the purpose. Some of the balls which have been partially worked into facets were probably used as *mullers* for pounding grain. Some *larger* balls, formed of lime-stone, and found at Jerusalem, are supposed by some to have been used as missiles to be hurled from a *Balista*. This is possible, as Vitruvius mentions one so small as to throw a stone of only two pounds weight.*



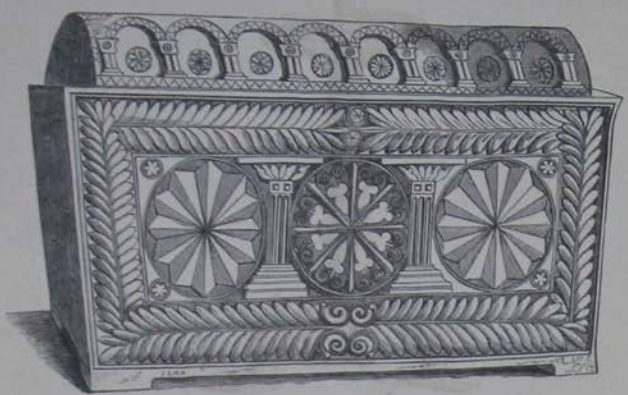


3. Stone weights. A number of these were found in shafts at Ophel, Robinson's Arch, and elsewhere. Their approximate value has been given by Captain Warren in "Quarterly Statement" No. VI., p. 330. One, with supposed Hebrew characters, found at Robinson's Arch, is here figured. [See Figure.] Another weight has upon either side the following mark. It was found in a passage above the Virgin's Fount, and weighs 2301·8 grains troy.

* Dict. Greek and Roman Antiquities. Art. "*Tormentum.*"



The whole design is surrounded by well-executed wreaths of leaves, resembling those of the bay or laurel. The front of the lid bears in low relief a series of eight arches upon pillars, with a small roundel in the midst of each arch. [See p. 305, and Figure.]



Chest No. 2. This example, which also contained bones, was found in a cave north of the English sanatorium, about a mile from Jerusalem. It measures 20 inches in length, by 19½ inches in height, and stands upon four feet or pedestals at the angles. The material is white limestone. The ornaments are roundels enclosing stars and other designs, with a kind of chevron moulding between; roundels are also found on the lid.

Chest No. 3. This chest is 27 inches long by 13 inches high, and, unlike the other examples, has a perfectly flat and unadorned top. The ornaments on the front are two roundels. It was found in a cave near Bethany, and contained a human skull and bones.

Numerous examples of these mortuary chests have been found near Jerusalem.

Objects made of Metal.

1. Dagger of bronze, found with pottery (probably Græco-Phœnician), in a sepulchral cave, east of Olivet. A portion of the wooden handle still adheres to the base.

2. Bronze boss of a shield found at Robinson's Arch at the south end of the Bridge, at a depth of 35 feet. Roman.

3. Copper lamp-stand. Apparently of the Byzantine period. Found in a cavern 160 feet south of the Haram Area.

COPPER LAMP-STAND.

4. Small head of bronze, apparently a portion of a larger object. Probably Phœnician, or Græco-Phœnician from Cyprus.

6. Small Christian ring of bronze, found outside St. Stephen's Gate, in a cave lined with *loculi*, or shelves for the dead, along with a sepulchral chest. Christian lamps were found in the same cave.

7. Bronze head of the cobra serpent; the breast was formerly enamelled. Pure Egyptian; from the head of a god.

Objects of shell, ivory, and wood.

1. Five objects from the Mound of Tell Salahiyeh, near Damascus. Three are round and one square. They are formed by cutting sections from the shell of a *conus*, or some other species of shell, and were probably part of a rude necklace.

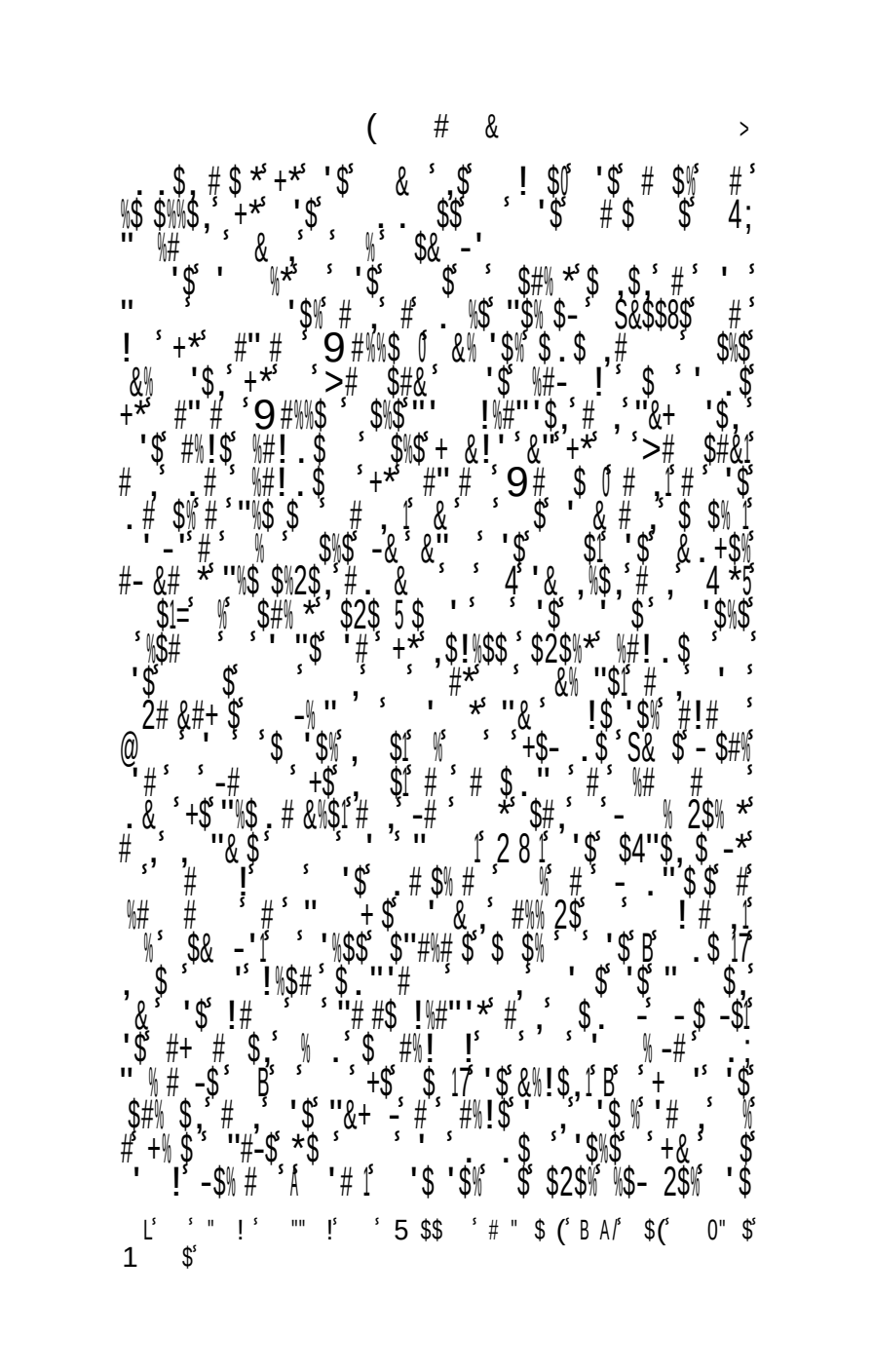
2. Three pieces made of ivory, and belonging to some game. Found at Ophel.

4. Fragments of carved cedar wood, found with pieces of white marble lattice-work, in a Christian church, discovered about three-quarters of a mile north of Ain es Sultan. (Jericho.)

2 $ ' '# U ! $ '# ' # %&!! ' ,&%# & -$% # #- $! 2$% $ U ! K) +* '$ -$, # ! $ 2$% $ U ! K) +* '$ #-%$ ' # # 2$%- +* $ - + $, #% . $.&,#'# ,'' %#$ - . $ -. %# $ - &--$ $ # , % &. $ $4'' # $ -$ %$ $, % . $ $. $ # , %$+& ' $ %& $ $, - $ & * '- # #% $ $%$ # -$% # $4 $ %$! & ' # ' U ! +$ 2 ' $ +$ & , $% $ 2 ! & # -$ # , $4''$, # $ & $ +* $4''%$ $ - $ $ $4'' . $ $ & $4''$- $ $- % # # $ %$ * ''$% . $ # '' # $ # #*- & , # +$ $ $! $# $ '' + $ $%$! ' # .#* #''''$#% - % +& $ $ '$ %* '# # 2$%* %$# 2# &$ $ $%$ * $ '$ '& . # $%$ $! 2$ '# '#, * / ! ' +% &! ' +#* # # ' $ # ' 5+& $%$ $, $ % *$, # # $ - $ # $ $ $, &'' # # '$! , # , . #%%$, $ ' $ $ $, &'' # '$ # # # +&% 5 3$% ! $! ' $. ' +* -$ # 2 -$ ' $ # %& $, # ' ,$ '' # 2# '$ % 2% & $ %* < ' $ & - ' #% * % , ' $ Q '# . # % * . # / ' #%$ & #-S&# $, *% # # $ - # $ &%$ # -#% $ #+ & ' ' %* # '''#+$ O '$ ' % -# '$%$ $ ' $ +$ ' , %$- ' # ' $ * % , $$, $. - , $%#+ $ $ $. $ ' .'' % # -$ $ & % #%%# $ +% $ * ' $ %* , - 2$%* # , O

-$% # ' ''#% ' $ "$- # * '$ &""'$% # , $% $ '
'#, . $ #' & $%$, 7
' !%$# *' '$ %$!%$ $, ' '#' %' U $ ' '
' #/$ # S&$$8$ %&++ !' % .$ / ' - "*, ',
'$ -% '' $ %. $, ' $#, ' '$ $#
!$!' '$ $ '$ & $& . $ $% ' #
- . .& -# $, $- % ' - 2$%* % ' $ $%5
. # ' '$ %& # & ' / . $# &%$ '
'% &!'' - ' > 2$% . $ ' !$ ' '' $ $ '
'$ $' '$ $! # $%$ $ %& $, % ' '
$ # , '$ # $- %#+ +& & # *
&--$ Q '$!%$$, $ ' ' '$ %#+ ' +$!' #'' &5
)$%#' $ + #- $ # ' # ' $ '' ' #'' # '
9 #%%$ ' % ' $#%, ' ' ' ! ' '#2 !' +$$ ' '
- . $ ' $%' +* % U $ ' % ' $ $% . # ' #'' # ',
9 #%%$ ' '2% '$#% !' % . % ' U $ ' # ' '$
. $. $ '# '$ %& # ' . $%$. 2 !' ' '$
$%' &!' ' +$ ' # ' #-- & ' #+
. # * #- ' - '' ! ' % & $ '$ -&'' * # ',
C$# & * ' $ %#+ ' % # ' $ '. $ '' % !' ',
KFJL '#' ' $ ' . $ ' #' +$% * ' . $ ' '$
&+C$- 0 ' $ ' ' $#% !' # ' #-- & ' ' $
' $2 ' % ' #%- #*' ' ' # ' '
$% . > # $#& ' # ' +$!' $' +$ % ' $
! # , ' $. # $% * ' $ $4 ' . # ' 2%'
' % ' $ #!# ' # ! ' # ' ' $ %& # ' &'
'#, + # $, # % . # ' % ' $ $ 0 # , ' '# ' -
$S&$ *' % . # ' ' $ &+C$- . & +$! '
% ' $% ' +$ %$ # * ' ! ' . %$ - & , ' $, $ '
' ' $' . & +$ %$. $. +$%$, ' S&$$8$ %
- "* ' :$ -% '' '#, +$$ #/$ ' 0 %$#'
2# &$ #' S& $ & / ' # , ' - $S&$ -$ ' '$
0 ' O

''% %#- $,ʻ $! # ˆʻ 'ʻ$ʻ$# & *ʻ# ,ʻ !%$$,ʻ ʻ 'ʻ$
5 %#+ʻ $%ʻ$ʻ +$!ʻ% & $,ʻ 'ʻ$%$+*ʻ %ʻ$#ʻ, .ʻ %ʻ$
ʻ :& *ˆʻ KFJLˆʻ #'' #ʻ 9#%%$ʻ $ʻ .ʻ$%& #ʻ$.ʻ %ʻ
'ʻ$ʻ $+# ˆʻ#ʻ ,ʻ#ʻ$ʻ %ʻ$ &% ʻ 2$.ʻ +$%ʻ
'ʻ$ʻ % #,ˆʻ'#ʻ,ʻ#*ʻ,ʻ&'ʻ% ʻ.ʻ# #ˆʻ ʻ'ʻ%$ &% ˆʻ# ʻ
ʻ# ʻ. $ʻ ' ˆʻ ' ʻ$ʻ %*ʻ ʻ 'ʻ$ʻ $ ʻ%&-
ʻ, 'ʻ$ʻ $ʻ #'' #ʻ 9#%%$ʻ # ʻ $ʻ 'ʻ ʻ .ʻ 'ʻ#
'ʻ S&$$8$ ''#''$%ʻ #/$ʻ # ʻ ''%$ ʻ ʻ 'ʻ#
Q2ʻ $ Uʻ %ʻ >#ʻ $#&ʻ'#,ˆ$#% *ʻ 2$. +$%ˆʻ
$ʻ , ʻ# ʻ %#+ʻ %&- ʻ + # ˆʻ
'' + $ˆ#& ' % *ʻ #/$ʻ# S&$$8$ ʻ 'ʻ$ -% '' ʻ
' ʻ #ʻ !%# $,ʻ# $%ʻ. $ʻ -& *U +& ʻ 'ʻ$
'ʻ$ S&$$8$ #ʻ, ʻ $ ˆʻ# S&#%%$ʻ #% $ʻ#. !ʻ
'ʻ$ $ 5 #ʻ. $'ˆ + $%$ʻ $4-'# !$,ˆ #ʻ
>#ʻ $#& ʻ. $ʻ $!$%ˆʻ $#% !ʻ 'ʻ$ʻ $ʻ .''%$ʻ.
ˆʻ'#,* ʻ $ʻ ''% !ʻ&'' ʻ ʻ$ʻ % $ʻ# ,ʻ
$ -#''$ʻ +* !' ˆʻ+% ! !ʻ 'ʻ$ S&$$8$ ʻ
%#! ˆʻ# ʻ%$-$ 2 !ʻ# ''$#% & ʻ 'ʻ$ $! $%
'ʻ ˆʻ'$ʻ %#+ʻ ʻ#ʻ %$& ,$% 'ʻ$, $ˆ# , ʻ% !ʻ
- ʻ# $% &'' ʻ ˆʻ+% /$ʻ %#!. $ ʻ !ʻ$ʻ
- &',ʻ +$ʻ ,ʻ$ʻ 'ʻ$.''% O 'ʻ$ʻ * $ˆ &- ʻ$
ʻ ˆʻ#ʻ%$. # ʻ .'ʻ$ - . '' $ʻ $
#'' # ʻ 9#%%$ʻ %#+ˆʻ' 2%ˆ %$ &% !ʻ 'ʻ
! ʻ S&$$8$ʻ 'ʻ$ #%!ˆ$ %#!. $ ʻ *$ʻ
%$. # !ˆ >#ʻ $#& #ʻ 'ʻ$ #. $ʻ $ &--$$, !ʻ
ʻ !$!ʻ ʻ S&$$8$ʻ 'ʻ$ #. $ˆ# ʻ -$% #ʻ
. # $% %#!. $ ʻ 'ʻ$!ʻ 'ʻ$, % #* ʻ
:$% # $.ˆ# % ʻ# $.''ʻ #ʻ. #,$ +* >#ʻ $#&
#ʻ ,$- ''ʻ$% !ʻ -% ''
ʻ *ʻ 'ʻ$ #. $ʻ. # 'ʻ$% #%% 2$,ʻ ʻ &% ''$
ʻ >#ʻ $#& ʻ % ʻ%# # ʻ#'' # ʻ 9#%%$ʻ
%#- !ʻ ʻ 'ʻ S&$$8$ʻ 'ʻ$ %. $% #ʻ ''&+ 'ʻ$,



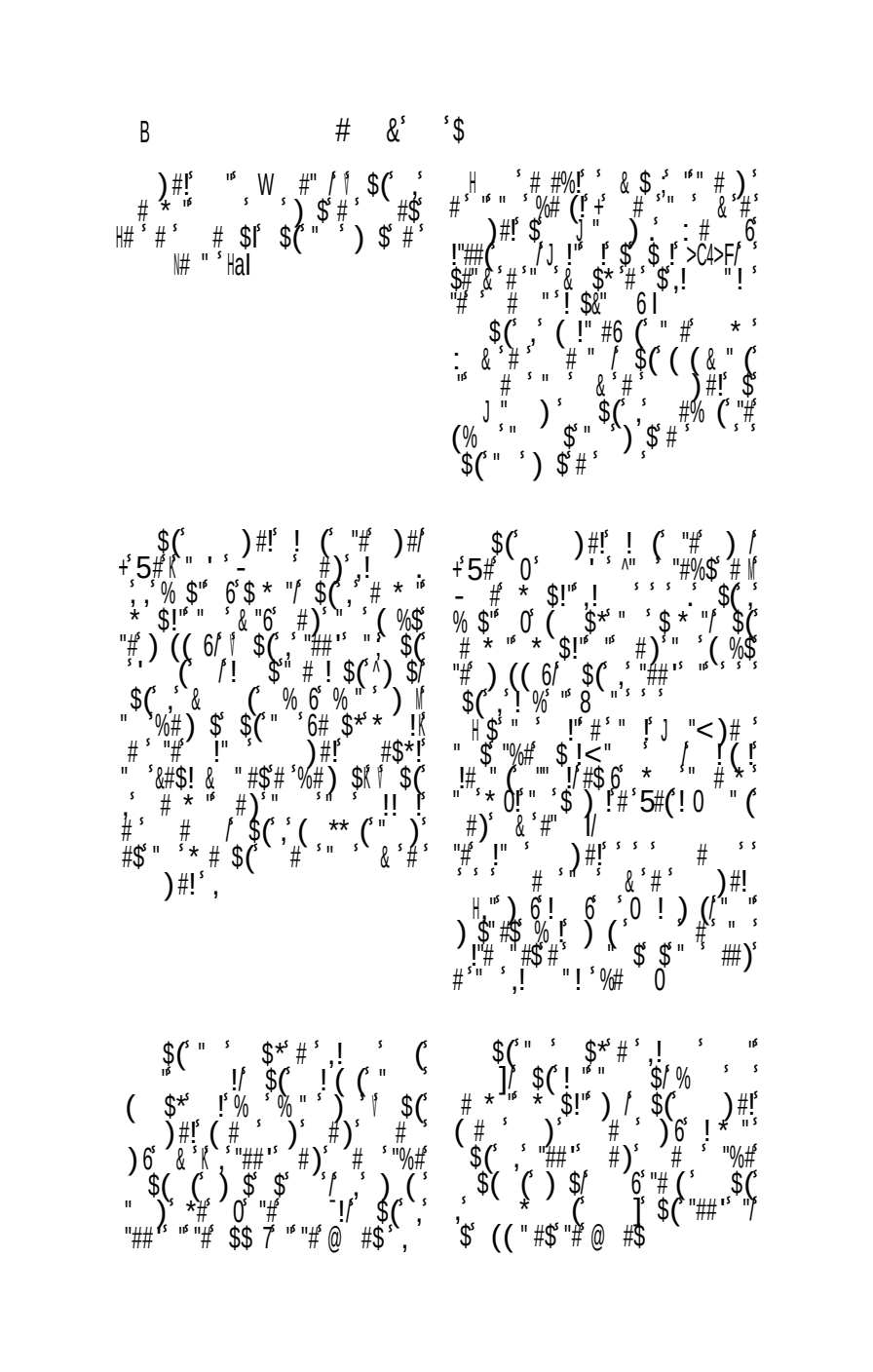
% # &ʻ ʻ$

' ʻ$ $Q $ # $ ' - & -$% # Q %ʻ . & %$. # # $, + ' # 5 $! + $ %#! . $ ' $!# ''# #$!%#''* # $. - - $ - $ # %$#, *$ % . & ' U !ʻ $ '#ʻ ' $ 2$%ʻ*ʻ ,$ ʻ $. - #'' .#%* %$- % , . " % # -$ # *$ - 2$% $,ʻ #''#% % -$% # !$. !%#''' -# # ' $% ,# # ! 2$ ʻ ʻ - ʻ #%$ # %$#, * - $ #+ $ & %# $ ʻ # ' ' $% & '$#% ,5 ʻ ,$!%$$ ' %*ʻ &% ! Q $# # ʻ - & $ # ʻ ' &% $#% * ' $ ' >%$$/ # ''#+$ ʻ & ' $%$ $ * 5 ʻ ' -$ - # ʻ ' #''$ +& # $ -# ʻ # -# $ ʻ +$ ʻ $%$ *ʻ &- $ $ $% # ' $ ʻ ʻ ʻ ʻ ʻ ʻ 6 U '''#) Z- +& 2 Q $ ʻ ' $ $% &'''' $, #2$ +$$ # , $ $ &% ! C# 9 #% +* # # . $ $ +$-#& $ $4 # ! # , . $# # ''' #+$ Q - # --&%%$ -$ $%$ # - 5 &% $%1 ' $ / * !#. . # S&$ %$-$ 2$ # $ - % +& +*, ' #''$ ' $ 4 & . $ ' - * ' $ >%$$/ Q# ' $% ' $ $% &'''' $, %$-$! ' $% ' +$- . $ - $#%1 2 8 ' # ' $. %$ ''% . 2$ ' - #%#- $% ' $ '' $% ' $*+$- . $ # $ &'''' $, ' $. %$ -. '' -# $, ' # ' . %$ #-- %,# -$ ' $ #,2 -$ % $& - ' # +$$ $ $, %$# $ # $%$ %$# $ '# +$$ $ $$, % . $ '$! ' > $% . # ' # %$ - '' %$ ' $ $ #%$ $ 5 #% * # ' +# $, ' ' %$. ''%$ $- $ # $% # ' # ' '' %$ $ $ &% ''$ # , # - $S&$ *' + !$, %$ % $ - $- &%$ ' ' ' $ C&, - & ' # &%$

HMN ! " # ; % ' # / ' & ! ; ' ( ) ! *

>C ' ' ' ' % # ' ! ' # ' !"" 4) #!'
>F ' ' ' ' ' H # # ' # ' " ' & ' # ') #!
" $(' ' $*' # ', ! ' ^&) ' "#W
>D ' !/ $(' (% " ' H $" al ') 6 ' &#) ' % " ') ' W $(
) #!' (# ') ' #) ' / ' '
? ' >' "## " ' # ' # ' "%# $((') $' $' / W $(' , ') (' ")
*# ' 0 ' "# / $(' > ' / '
?> ' #$ ' @ #$ ' W , " ! ' , ' % # ' " ' !0 $ (' Hal /" ' % !
') ' Hal / $(' " ' % !' # '
?? ' ' ' / ' $(' " ! ' , % # ' " "!' * " !/ $(' " ! ' , % #
' " "!' # " !!/ W $(' " !
?A ' , % # # ' " = "4 # #& / W $(' " ! ' , % # ') (
" ' "%#' ' '
?E ' ' ' ' W ' ' „ $(' " ' % ' $#% ! ' $ ' " ' $" # ' # ' W ' #$
"!' !0 $ ($(' ! (' "# ' " ' 0 #0 /
? ' + ' ' 6 ') $' % ' $ ' ! ' # ! . W , " ! ' , % #
(' " ' # #& !" #$ ' " ' !0 $ (' Hal ' $
?B ' ' ' ' ,! ' W , " ! ' % # ' " # ' H : I ' $(' " ! ' ,
% # ') (' " ' # (' # ') #$
?C ' , " ! ' , % # ' " = "4=) #" / % & ' % ! ' (!" #6 (' Hal ' W
, " ! ' > ' % # ' " =#!# / % &
?F @ #$/ # ' " ') " 6 ' & P/ & ! ' ' @ #$ ' % !
! J &"/ ' $(' ,
?D ' ' ' ' % " ' " ' & " ! ' % & ' , ' (((' "#' " ' " / W $('
" ! ' , % # ' " " ' ' 4444444!
A = " @ ") ' W $(' = " = ' #$/ $(' , '
&" (' " ' ' ' 4444444!
A> ' ' ' ' " ' $(' W $(' # #$) / % ' ! ((' ' '
A? ' ' ' /) #! ! ("#') ' ' ' + ' * " " # #$) . ' W $(' ,
AA ' ' ') #! ' ' ' ' #$ ' ' K
AE
&+C $, ' #%$ ' , $ ' +* ' , $ ' '$ 2$% ' ' % $ %
-' . # ' # ' , ' $ ' # $ ' :& $ KH) ' "&+ '$, ' +*
'$ & ' , $ ' ! $ ' %$-$ 2$, % . $% .
># $#&

* ' "5 ' = + + ' > (,
') ' ! / !#$ # ') #! ' ' ! / !#$ # ') #! '
* (' $* # ' # / " ' @ # ' $ (/ " ' $* # ' # ' ^!#$ # W
$ " ' , 6 " ' *$ (# $ ' 6 " ' (#



F !"# ' %ʻ# ʻ&!; '()!*

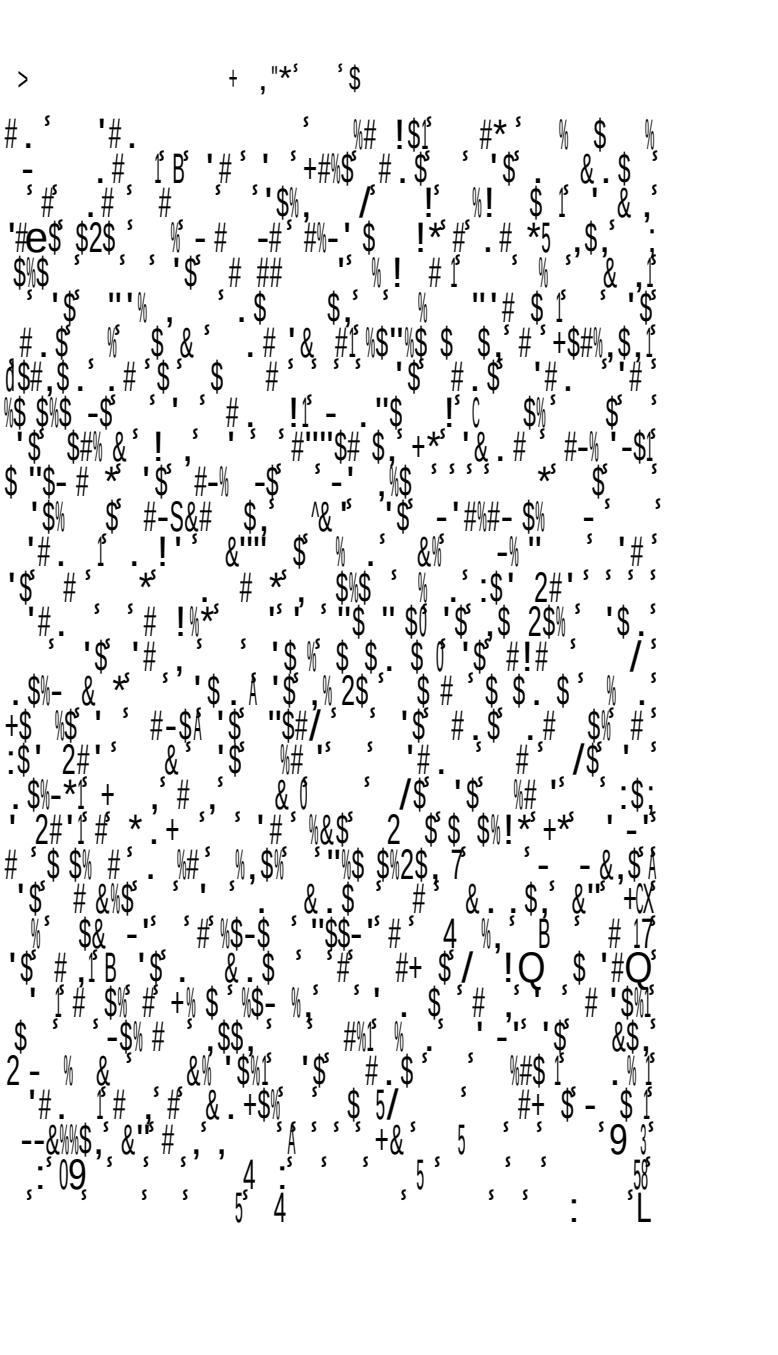
+ʻ5#ʻ (#%$ʻ $(ʻ *ʻ *ʻ $!ʻ)#!ʻ !ʻ (ʻ"#ʻ)ʻ @ʻ #)ʻ #ʻ#$ʻ)ʻ.ʻ ʻ)#!ʻ $ʻ *ʻ *ʻ"$!ʻ #ʻ#$ʻ)ʻ $(ʻ)6ʻ(6ʻ ʻ"ʻ6 ʻ)#!ʻ $ʻ *ʻ *ʻ"$!ʻ #ʻ#$ʻ)ʻ $(ʻ)6ʻ(6ʻ ʻ"ʻ6 ʻ ^" ʻ "ʻ. ʻ 'ʻ$ʻ#ʻ ʻ!#"ʻ&ʻ ʻ .ʻ%ʻ '# ʻ +$ʻ+$ʻ ,$ʻ $"#%#$ʻ,ʻ $ʻ$%ʻ ʻ %$#ʻ, ʻ$ʻ &+ʻ ʻ 'ʻ #ʻ '$%$ʻ %$#$ʻ'ʻ ʻ$ʻ/ ʻ!ʻ+*ʻ '$ʻ'$ʻ"ʻ ʻ'$ʻ. +ʻ /ʻ'$ʻ E ʻ 9 ' ʻ&ʻ

ʻ % $ ʻ% ʻ -' ʻ.#ʻ ʻ 2 ,$ʻ '$ʻ ʻ-%"ʻ ʻ ʻ%$$ʻ"#% ʻ0 ,$ʻ $ʻ ʻ-%"ʻ ʻ$ʻ 4 "ʻ $- ʻ - & 2$ʻ 'ʻ$ʻ2 - ʻ%$ʻ ʻ $#ʻ 2$ʻ %#$ʻ0 $ʻ$ʻ ʻ$ʻ ʻ$ʻ$ʻ#ʻ ,$ʻ!ʻ ʻ +&ʻ !ʻ#ʻ ʻ$%$- 'ʻ$ʻ/ ʻ!0#ʻ,ʻ'$ʻ'%,ʻ#+# $ʻ ʻ$ʻ & 'ʻ #%, ʻ , .

ʻ 2 ʻ +$ʻ $$ ʻ '# ʻ '$%$ʻ ʻ , &+ʻ# ʻ# ʻ# ʻ ʻ '$ʻ !$ $%# $ &% ʻ $%# # 0 # ʻ '$ʻ . -%$"# - ʻ . #*ʻ #"""$#%ʻ $-"ʻ# ʻ .# *ʻ ʻ $%$ ʻ -ʻ #% & ʻ 'ʻ$ʻ # ʻ# ʻ >#ʻ $#&ʻ '# ʻ # $ ʻ #% 0 'ʻ$ʻ 'ʻ$ʻ %#! $ ʻ +# $,ʻ +* #" # ʻ #%%$ʻ #%$ʻ$ʻ$ʻ %" #-$ʻ+*ʻ. $# ʻ >#ʻ $#& ʻ ."%$-ʻ S&$$8$ʻ# ʻ'$ʻ. &. . $ ʻ %$ ʻ$ʻ# ʻ $#ʻ -# +$ʻ '"$,ʻ# ! .ʻ# *ʻ 'ʻ$ʻ$5 ʻ'$ʻ$ʻ- 0$- &%# ʻ%$# ! ʻ ʻ .ʻ#*ʻ+$ʻ - ʻ $ *ʻ$4"$- $,ʻ #"""$#% 9$ -# 2% ' "ʻ ʻ #2$ʻ #- ." $ʻ$ %$ %# 0 +& % '# ʻ '#2$ʻ $.#*ʻ+$ʻ '# / & ʻ >#ʻ $#& $ $%!*ʻ ʻ%$- 2$% !ʻ 'ʻ$ %#! $ ʻ# ʻ#" # 9 #%%$ ʻ %+$#%# -$#,ʻ"% ."ʻ#- ʻ# ʻ'$ % !' ʻ ʻ & $ ʻ %, ʻ. ʻ #" # 9#%%$ ʻ ·. . $ ʻ B 9 '$ ʻ'$%ʻ 'ʻ$ʻ!$ ʻ $% ʻ , ʻ %ʻ #% ʻ#"""$#% ʻ .$ ʻ+$ʻ#ʻ .# ʻ .# $%ʻ- . ·. "#%$, ʻ 'ʻ$ʻ %$ -& !ʻ 'ʻ$ʻ -%"# ʻ % ·. + 2 7 , ʻ .& ʻ+$ %$.$.+$%$, ʻ '# ʻ 'ʻ$

$ ‘ % D

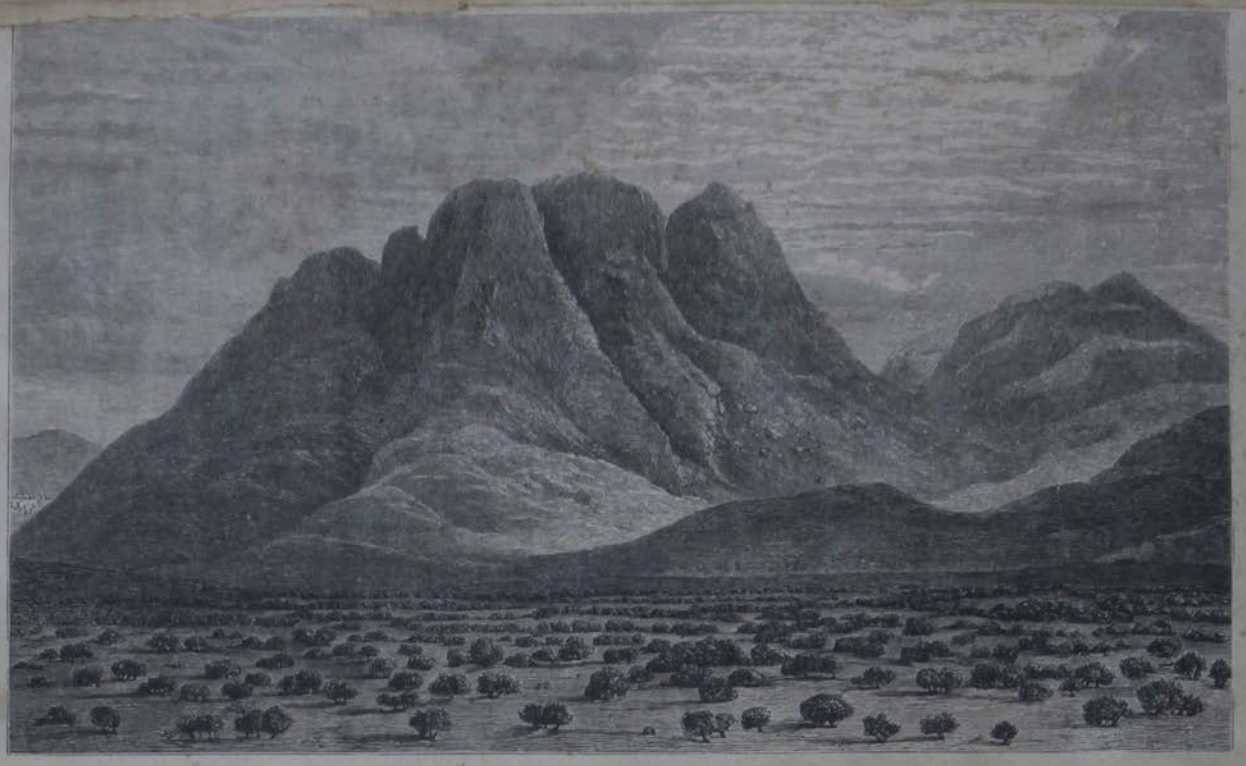
‘ ‘ ‘



, < R + > + (H + > H > R +

P"

@ "!& $ 7 ("# " $) #(& 0) $"! $(" $! "#$! 60#" ! ! $(! ** !" #$!/ "# % & " ! !"#$ ((6 * $! / $((% 0#$ " &" "/ 0 #)" 0 & ! (" # " " ! $* ! / % & $((% ! !") ## 0# $"/ 6 "" % ! (# " # " % & 6 7 !" (#$ # # " ! "#$ & (& "6 $(" $& # # #0 $ #$ #! ! #) " 8 !" #$ "" !/ " * 0! $(& $ / " # * $" ! &# (!& & 6 &" " * $ * !" # ") #$) $" $* * $! !6 $(" $! & $ $" # * $$ / " # * / % 4#4" 4% !04 ' / %# (! ! (($ 6 00 (% & / " #) ! " $!& 0" #$ # !#) #" & ! / $#") 6 $" 0" (" !) ("# ! " % #) $ $* $(!" & (#) 6 # "! "/ $(# 6 *## (2 !#$!/ $" ("# *" %# 4 (* / #!% $! " $ $" $! 6) 0# " $ $(% ! & !" * "K !# & # " ! $" $! 6) 0# " $ $(% ! " # " ' $*< ! < % #) $) $ % ! " # " & # (!) #$ (# %) % & !! (&"# # !K " / " " $) ! ! /) /)#! / $($) # % 4 '$#%$ # " &" ! #&& (0 $((#%$K $(" " $ (" * " 0 # " ! # " ! "#$ % ! & #$ (# " ' $*N! ^ M ($*! # $( ) 0 #) $"! $K" ! & " !/ % " 6 (&" $ $(!) (#$&) # "# !0 # % $ $ * # & " $/ / $#"% " !" $($* " ' (&#) "% $ <) $9 ("#$!/ & 0!/ !8] !/ (!! " "#$!/ 0) 0 "!/ P& < %# (!" * " 0 " $& # $ $(($ " &#$& ! #$ &# (!" % & ( ) ! $!) & $ 2! $#" 0 ! (&# &" #$!!/ & " $ & 0 &8 (6 0" $ 1 $!#) ") # ! +!8] !/ % & (($#" * $ $6 # " ' $#%$ " 7"!/ $(% & !) ("# #$* "# " ,N * "4 $(&# $ <) "" #$ % & (& ! #$ &# (#$ 6 ((! ($ 4# * " #) = ! (! " !/ %# ((% " "" $" #$ # ! N# !"# & " $ *) $"9 6 $! # $/ % & !# 00 $ $#$ # ") " ! 7" $"/ $(% & / && " 6 &#0 (/%# (# # !#) &#$! (



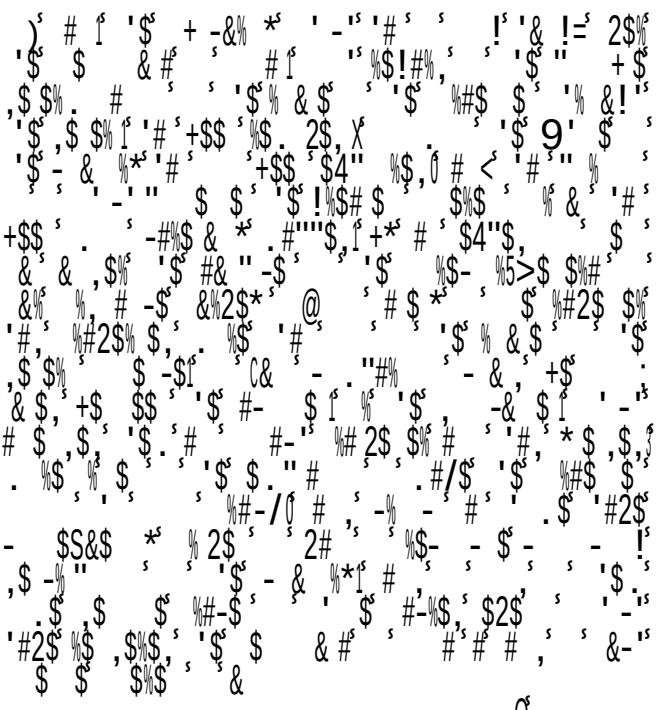
SINAI.

To face page 513.

G: 3 , - ,- : -,-

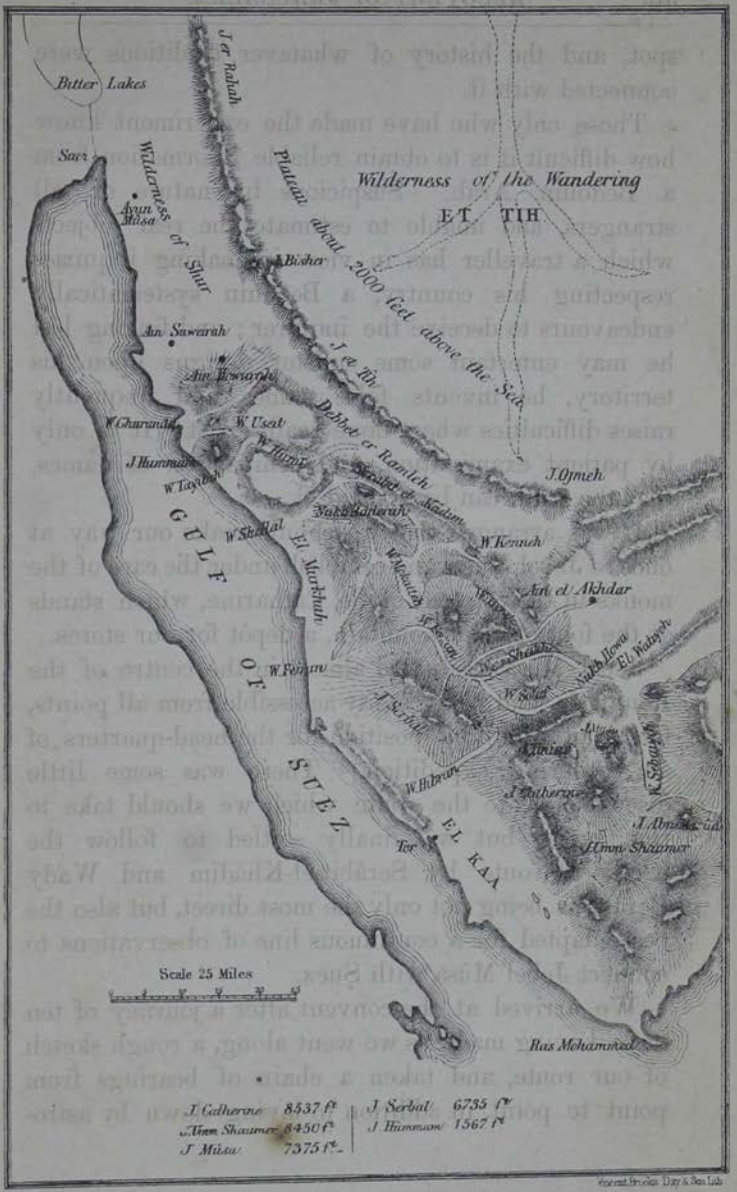
,- ,

' ' 5 F# # 2# >> A?# I' J



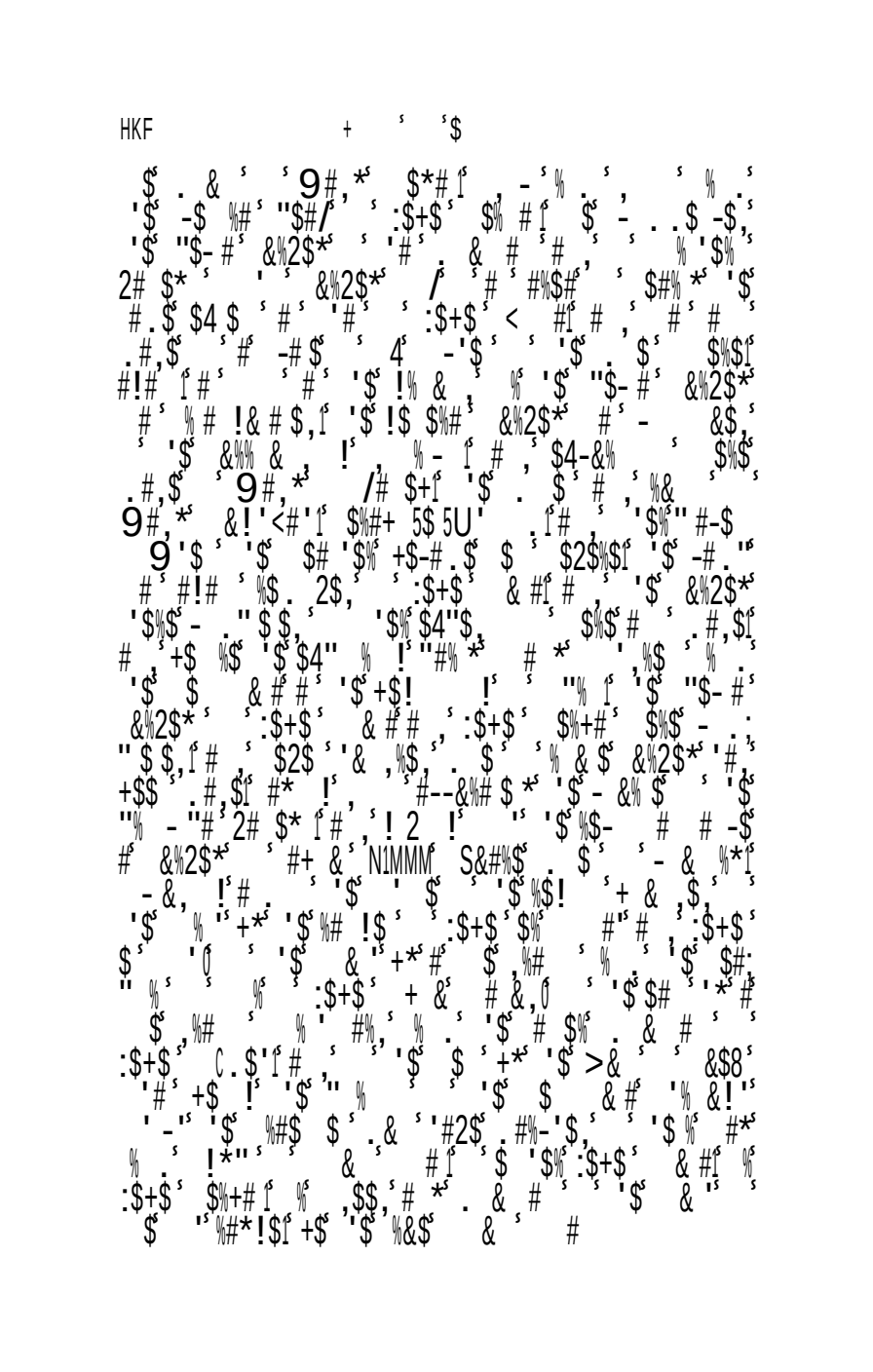
PENINSULA OF SINAI.

To face p. 516.

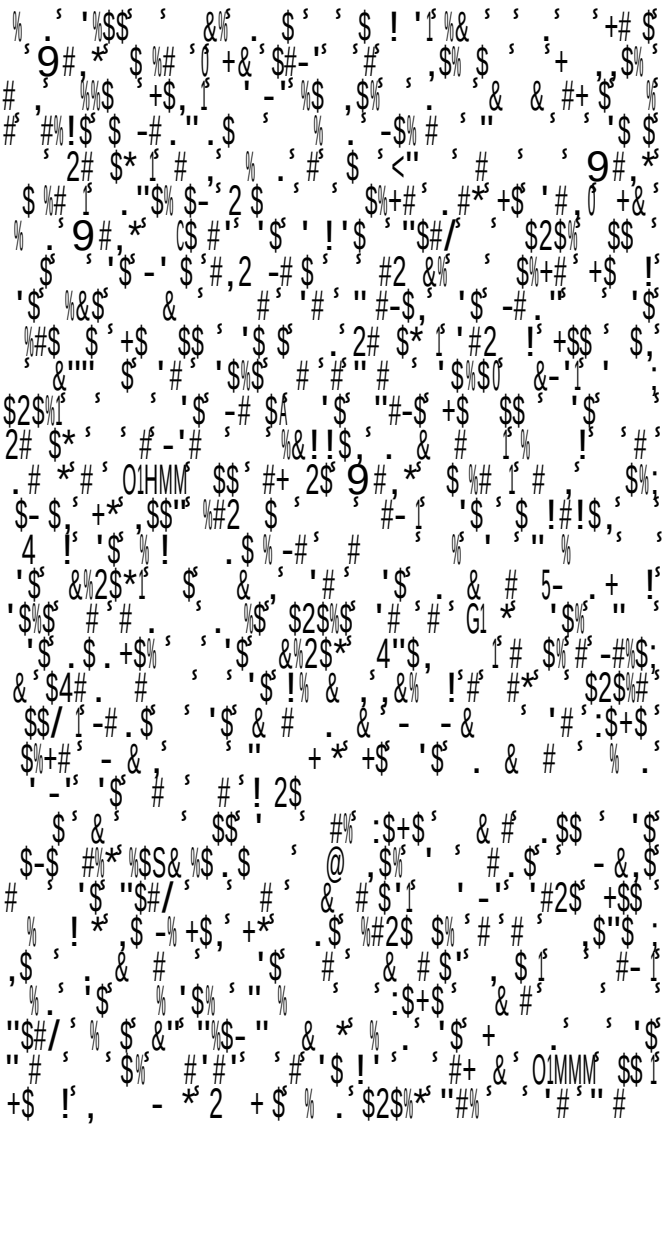


Vincent Brooks Day & Son Lith

%# -#' + $%2# ' '$ $4#-' " ' '$#-'' '
&%'-#.'' !''#-$
*' ' % $ ' '$. / ' '' ' ' ''#',' 2$'
$ $$/' ,& !' '$''%$2 & ' $%! !#,*
%$-$ 2$,'& ' # ' -$'' #-$,'# % .#' &%',''#'
% /$$'' !' &% %$' ' '$*''%$ $' & '&-''
#/$'&'' &%#+ ,'$& ,'$% '$'% ' +& '$''%$ $%%$'
'$'' %$$,' .'$ 2# $* '#',-'' '$- 2$ #,
+ .
' ''$- #' &%2$* ' :$+$' & #' #'$ &%% &,.
!' . & # '#',2# $* ' #' -#$,' 4' -'$,'¾
'$'. $' # ' %.'#'' % ' &% %/' # ,' '
'$'' ' ¾, #$ *- .:$ -$,' ' +# $ # -' $' '
'$'' ¾ #'#'' 0 2%*''% . $ ' ''$#/ #'
-#$,' ' ' $ % / $.$' . $' ' .+' # ' .
%& $ ' # ,' '$ %'%$ # 2$'' ' # ,# &,$'
$%$'.,$ $%. '$,'+* % # !& # ' E
''$- #' &%2$*- # $,'#' #%$# ' &'' #%,'
' 2 $$' S&#%$'. $ ' # ,' -&,$,''$' . & #
' :$+$' & # #' :$+$' $ %' '$' # ' & #$'' '$'
'' #' ' $% #'#' :$+$' #' '$' - 2$' 2# $*'
9#,* $C#' # ' '$' $%'' % ' ' 9#,*
$+# *$' 9 '$ ' '$ % # !& # ' #' - .''$ $,'
-'$' '$ 5- . $,' -$' $%$ $!#!$'
' '$' 2 !' # ,' . ' 5 /$ -' !' $4-&% $%$'
.'#,$' ,' '$!$ $%#' %$- # # -$ &%2$* #'
$4 $',$,
#% ' '$ $, ' $-$.+$% ' !%$ ' -' ' # '
--# #' 5 % . $% $%$, .&-'' ' '$
''% !%$ ' ' '$ &%2$*' '# $' .' 2$,' ' '$ $%
!% & , ' 9#,* $ %# ' # ,'' -' !' &% $ ' $#%



,$ -%+$ʻ ʻ 4 ,&ʻ4 4ʻ KOΓ KIΓ #ʻ#ʻ. & #ʻ ʻ'#ʻ
- &ʻ+$ʻ &-'$,Γ# ʻ BʻB#ʻ 'ʻ$ʻ $ʻ'$%''#%ʻ7 ʻ -'ʻ
'ʻ$ʻ''$ʻ $$ʻ.ʻ#ʻ ʻ'#2$ʻ+$$ʻ $''#%# $ʻ,ʻ
+*2# $*ʻ % .ʻ 'ʻ &%% & ,ʻ !ʻ . & # Γ -$ʻ
+ & ,ʻ $%$ʻ %,$%$ʻ ʻ+$ʻ''#-$,ʻ#% &ʻ ,ʻ . &ʻ ʻ'#2$ʻ
# %ʻ,$,ʻ#''$ ʻ &ʻ &''''*ʻ ʻ# $%# ʻ''# &%#!$
ʻ #ʻ'ʻ &ʻ # ʻ ʻ'ʻ #%$# ,$! # $,Γ
ʻ *Γ 2 8Γ :$+$ʻ $%+#ʻ # ,ʻ.$+$ʻ ʻ- #Γ'#2$ʻ
+$$ʻ !$ $%# ʻ* - ʻ $%$ʻ ʻ # ʻ*ʻ 'ʻ$ ʻ %$S& %$ʻ.
ʻ.$ʻ ʻ'#ʻ$ʻ,ʻ ʻ !'+ &%' ʻ .$+$ʻ,
$%+#ʻ'#ʻ+$$ʻ -#%$ & *ʻ &%2$*$,Γ ʻ,ʻ+$ $$ʻ#ʻ
-ʻ % .ʻ 'ʻ. #''Γ %Γ +$ $%Γ % .ʻ ʻ$4-$ $ʻ
.'#ʻ,ʻ'#ʻ .ʻ &ʻ #ʻ,$ ʻ'$%ʻ'#ʻ+$ %ʻ ʻ# *ʻ ''$ʻ
''#-$ʻ %#ʻ#%!$ʻ# $.ʻ+ *ʻ !#'$%Γ ʻ %ʻ #*
$ʻ''$#/ ʻ''#%# $,ʻ % .ʻ ʻ$%$ʻ Γ '#ʻ _ &ʻ,
+$ʻ - $,ʻ+*ʻ+ & ,ʻ .# 2$ %&!!$, $ Γ# ,ʻ
+ ʻ $ʻ $# &%$ʻ #ʻ &ʻ $Γ:$+$ʻ $%+#ʻ &ʻ.
S&$ʻ #+ *ʻ''%$ʻ $ʻ #ʻ#ʻ''$-ʻ & $S&#ʻ $,ʻ +*ʻ #ʻ,
$%ʻ . & # ʻ'$ʻ $ʻ & #0ʻ #ʻ ʻ &!''ʻ #%
% .ʻ+$!ʻ 'ʻ$ʻ' !'$ʻ#+ 2$ʻ 'ʻ$ʻ 2ʻ ʻ 'ʻ$ʻ $#Γ
+$!ʻ *ʻ#+ &ʻ J1GMMʻ $$ʻ ʻ'$!'Γ % !'#ʻ ʻ
',#ʻ#ʻ .ʻ#ʻ $% 2Γ 'ʻ#ʻ#ʻ!%$# $%ʻ - .ʻ#ʻ
- & %*Γ# ʻ /ʻ .ʻ%$ʻ .& #ʻ 2$%ʻ $ʻ &%% & ,ʻ !ʻ
+$ $#ʻ &ʻ & % & #$ʻ*ʻ 'ʻ$%$ʻ ʻ #ʻ -!$ʻ
''ʻ ʻ'$ 2# $*ʻ $#%ʻ +#$ʻ 'ʻ-'ʻ# %,<# - .ʻ
''%$'$ 2$ 2$ ʻ 0 #ʻ ʻ *ʻ+*ʻ# -$,ʻ
.ʻ$ʻ 'ʻ$ $!'+ &% !'ʻ ʻ'#ʻ'$ ʻ $%# !$ʻ
ʻ.#! -$ʻ''$#/ʻ-# ʻ+$ $$ʻ#ʻ -$
ʻ 2# $*Γ 9#,*ʻ $*#ʻ# ,ʻ $ #'Γ $#-'



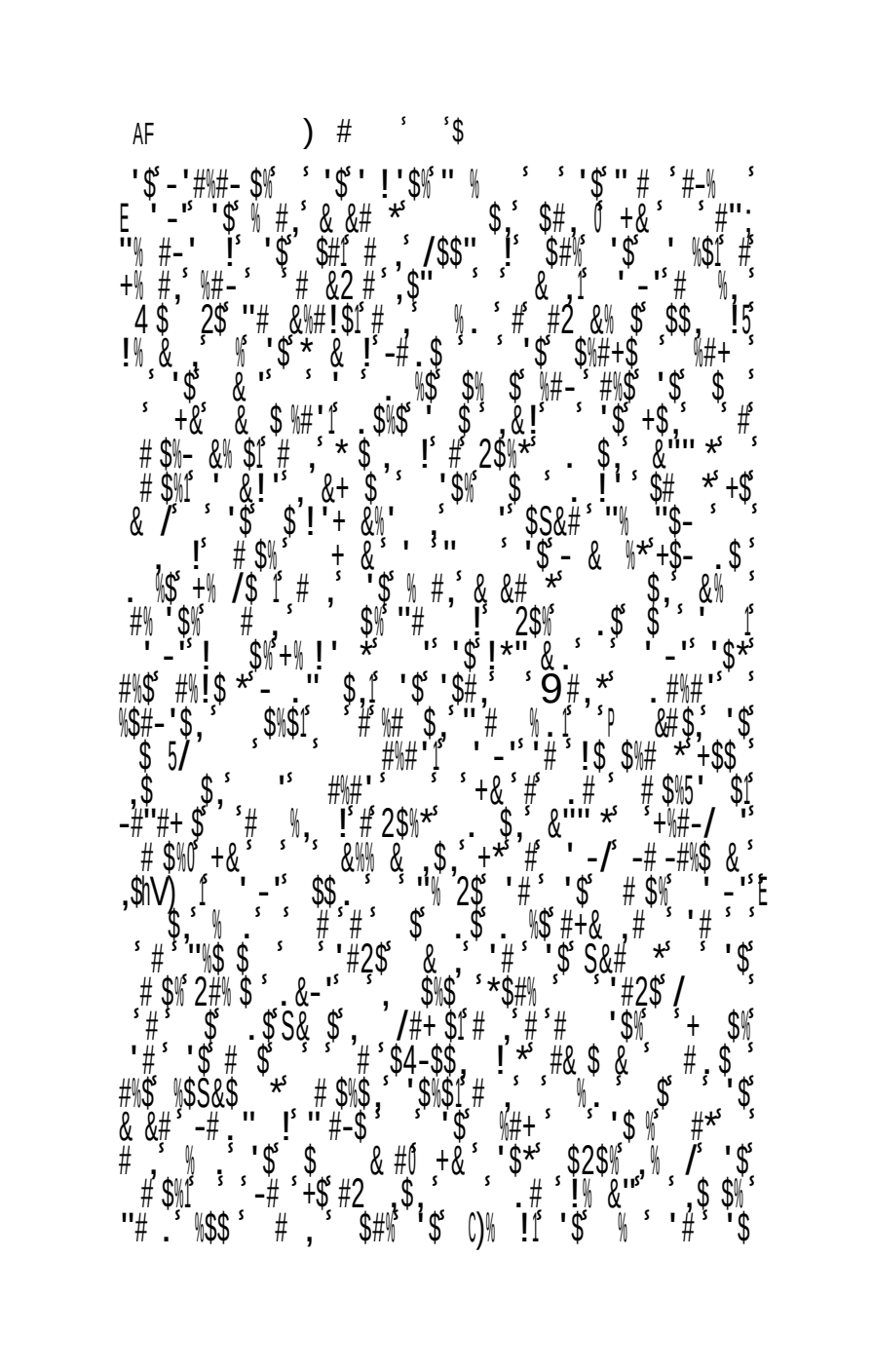
@6 /.0 +ʻ# ʻ& !)ʻ *5# (?A

, ʻ '$*ʻ #%$ $ ʻ $ -% +$, ʻ +*' '$ $# ʻ ʻ 9$ 5ʻ
ʻ # $% # ʻB # !ʻ & ʻ $ *'!%# $&% #!#
'$ /* /$# '&!$ # #%17 ʻ -$ %#ʻ $ $2# $, ʻ+# !ʻ
$ - %- $, ʻ +*'# !ʻ ʻ ' !'$% "$#/ ! # - .
$# &%$ ʻ '$!%# -ʻ . & # ʻ '$ $ & #ʻ ʻ
! # ,5 &-'! :ʻ %$ % $! ʻ '$ -'#%#- $% ʻ
:$+$ʻ #! 9' -": #+ & ʻ $ ʻ !ʻ % ʻ
. % ": ʻ & '! # ʻ , _ ": $. $ +%$#, ' ʻ '$
'$ % ʻ "$#/! ʻ #ʻ . S&$! ʻ ʻ ' !' $ ʻ " # ,ʻ
' $ &! ' ' $ #. $:$+$ ʻ ' # ʻ & $ ʻ % ' $
$ " $- # * #"" $, ʻ % ' $
$ "$#/

ʻ $# ʻ ʻ ' $. & # ʻ %& ʻ 9#, *$, ʻ $ %!
B ' $?# $* ʻ ' $ 2$ 1 -# $, ʻ % . ' $
- 2$ ʻ ! # '#% $! ' -' ʻ &# $, ʻ $#% ʻ
' $# ' $ ʻ ʻ %& 9#, * '&%# -' ! # 2$%*
$$ # ʻ % -/* ?# $*! - # ! ʻ # -
!#%, $ ʻ # ʻ #- " & ʻ "% ! ʻ ' ʻ 2# $*! #!# ! ʻ
$"#%# $ ʻ +* ' $ #%% ʻ % !$ ʻ :$+$ ʻ #%# % .
9#, * $C#! # 2# $* * ! #% ' $% $ #% ,
& ! $ ' $ % ' ! $# ! # ʻ $! :$+$ ʻ ' # ʻ
$"#%# $, ʻ % . ʻ ' $ &%% & ' ! ʻ . & # ʻ ʻ ' $
& ! ʻ . # $ 2# $* Q $ ' $! $# #%, ʻ
ʻ 9#, * $+# *$ ' ! # , ʻ ʻ $ $% $ #% ,
9#, * $C#! $"#%# $ # ʻ % . ' $ %# ! $ & .
' - ! $ + $$ ʻ ' $ 9#, * $+# *$ ' # ,
:$+$ ʻ # ' #% $! ʻ + $! # $, ʻ +* 2# $*,
% ʻ ' $. & # ʻ , 2%* ! ʻ & , ! +$ +* ʻ
. $# ʻ , -& ʻ $ ʻ + & ʻ % & ʻ , #+ & ʻ "%$- " & *
% . ʻ ' $" # +$ $# ' ! '# ʻ . ! ' $ ʻ +$, $ -% +$,

! 2$ %$-$ ‚#+ &'#. $ # ,'#' # ' !‚+*' '%$$5
S&#% $% #. $ +% #,‚ -'& ,'#,', #%!$ *'
'$' #2# #+ $ -#. '' !'!% &, &#$,' 9 '
%$!#%,' $ $ & #' -'' $#% *' $ &'''' $,'
#'$ $!'+ &%' :$+$ ' #' &% %$#. *'
'%& !' # $% #%$ &, ' $%$A $ 9#,*
$C#0 #'$- ,' 9#,*$ #'‚ '-' # $% '# &-.
-$!#%,$ $4 $, !'. %$ '# ' %$$. $ ',
$! '‚# ' %. -'' '#2$ $'' '#,'#
' 0 # ¡ % %$# . % $ ' $ % '‚ # $%.,
'$ ' $ ¡' # $% #'#'‚# ,'%& $ #%,
'$ ' $ 9# *' $ #'0 # ,#' &% '‚ % $,+*
'$,%# #!$ % . ' . & # @. . # *‚ '
'$ $# 9#,* $+# *$'‚# , $4-$ $ # $%
'# 2# $* +*,# #% %#2 $ ''' $:$+$ $ $
% & $ $ #, '' ! ‚# %, !' $4-$ $ # $%
'% &!' & ' $ ' $! %# - % - ' '#2$
#. ,' & # $4-&% 0 # , $. $, # $ $!'+ &%,
-' :$+$ $ & # & ,‚ ' /‚+$#% - ''#%
' . # *' & # % - - # ' %$!#%,
' '' &'''' *' # $% ' $%$ ' $% % -
' $ $ & # ' -' # %, &-' $4-$ $ '' # ;
&%#!$
#2 !‚ % '$ #+ 2$5 # .$,' %$# ‚ 4$,' &'' '
:$+$ ' # # ' $ %& & # ‚# ' $ >& '
&$$ # ' $ $, $# ' 4 ,& ‚ $' #2$ $4 '
%#-$ & ' $ ''% +#+ $ % & $ ' $ -' % $ ' %#$ ‚
' $ % .#%- ' % . ' $ '' '' $ '$%
'$ $4#- '' ' ' $ '' # #!$ '% &!' ' $ $,' $#

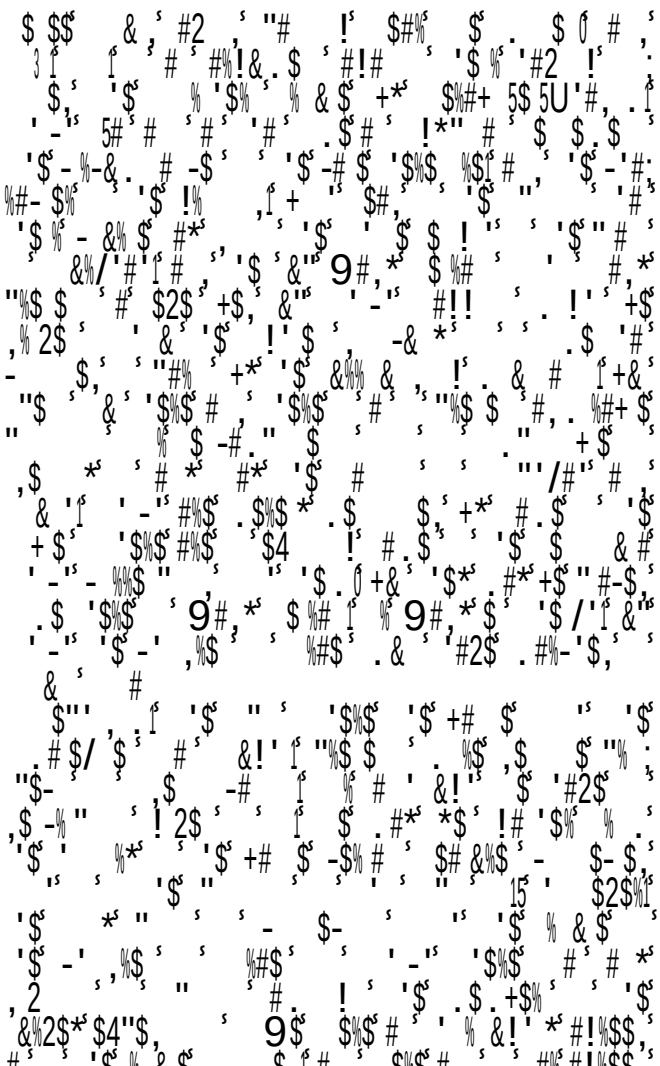
''% ! ' %'' ' ' -'' '#2$ +$$ ' #% - # *
% .$' +*, !! !'#$ ' $$ ', ' $ # ' '$
# $%' +%#-/ ' +&S& $,% /#+ $ # ' ' $ '
#%$ ' &%% & ,$, +*! 2$ ''# ' %$$ ' # '
&% ' !' !#%,$ ' - '' &'''' * &$8 '' 2$!$.
#+ $ ' $#2 !' ' ' . # ' # # %#2$!'
& ' #% , ' $ ' $ $% ' +$- . $ ' . %$# ' , %$, %$#%* '
$ $ 2$ % $$ ' ' $ % ' $ - # ' # '
''#%# $ ' % & ' :$+$ ' $% #'#'' #''''$#% !' ' '$
, # -$ # ' !' # 5'$#,$ ' %# !$ ' ' $ - '
' - '' %. # ' $%$# # - !' $ ' $ $% ' '$
'$ % ' $ -$' '% +#+ *' #% $ '$ #' -$$ $ '$
B 9 ,$% $ ' &% % $. $# !' $ # . $
'&% B# # 7
9$ %#, ' '# ' '$ -' %$ ' + ' %#$ ' ' $ $% !'
$ $ $% $ '&%' B $ ' '%$$ ' #* $ $% '
$% $ # ' & ' # $% 7 9 ', &- '' # ' '
$ -$. +$%$ ' # ' '$* ' $%$. $ ' # ' -' ' $ '
# ' $-/ # ' '$%, 15 '$ ' # -$. $ ' # ' #* ' #%- ''
-# '#2$ ' #2$%#!$ ' . %$ '# ' % ' $ 2$ ' '
$ ' $ ' % / !' ' '# ' 2 ' #
C &% $*' ' #+ & ' % *5 2$. $ ' # ' +$ #, $
+$ %$ # $% ' %#-'$ ' # ' ' $ ' # ' ' $ #$% '
+ $% # , & ' $. $' # ' $%$ ' $ # $% '
#%C 'W
'$ # ' ''# &%#!$ ' '$ -/ ' ' '$
%#$ $ ' $ ''$- # *' #'!' '' ' $% C &% $*'
'# ' # #* ' #''''$#%$, ' +$ $ ' $!'%$#' , -& $ '
- $- ' $ % . #%- ' %#2$ $% ' '#2$
!$ $%# *' , $ -% +$ ' ' $ ' ,$% $ ' ' &% # ' # '#% '
+#%%$ ' '' # ' '$%$ # , '$%$ # $ ' %&+ ' +& '
& $% * -#''#+ $ ' &'''' * !' # *' '$%+#!$ ' &- ''



%#2$ $% .$$ ' '# $% '$#2 !' '$ $ ' ' $ '
2$. $ '#% '$% & '' '$ % #,' ,$ -$,' 9#,*'
>'#%& ,$ ' #'+% #,' 2# $* - $,' ' $,' $% ,' +*'
$$'" +# / ' %& ! ' , % . ' $ +' '' #,$#&'
:& ' +$ ' '$ '' ' '$% '$ % #' -% $ ' ' 2%#'
$%5' $ ' #$ ' & ,' ' -'' '#2$ +$$ ' %$S&$ *'
$ -% +$ & ' !$ $%# */ ' '- #%!$
#' &'''' *' ' # $% ' ' +$ & ' #+ & ' ' $'
$% ' '$ #,* ' %$# .' $% !%#,&# *'
8$% ,' & ' % .' '$ +$, ' '$ #,*' # % .'
- ',$%#+ $ '' # $% ' -' #%$ 2$%!% '
'' %& '$ ' # ' # % ' #' #2 &% $ %$ % ' %' '
,&-/ ' # ' . # * ' $% + %, #+& ,# ' &'''' *'
$% ' +$ & ' '$% $,&% !' ' $ *$#%'
'$ +# / ' ' '$ %$# . # ' ' %*' '' ' -' -'
' $ %' ' # ' $2#'' %# $, ' #% $ ' - 2$% $, ' '
#' ' $,$'' ' # % ' # ' ' $ # !' # $%
+%#-/ ' # ' & ' $.$ ' +& ' '$, ' %& !'
+% / *' # ' %$ ' *' ,%# ' 2$%*' % /#+ $' # '
' $ %#2$ $% # $% / ' #%$!$ %% *' $,' $%$ ' '
#*' ' # % ' ' $ & ' ' $%'' % '
' 9#,* >'#%& ' #% $ ' - ' ' ' . #% / '
'' # . ' # ' $ ' $ ' $ ' $%#+$ ' %#+ ' #%$
!$ $% *' +$ ' , ' $%$ ' '# +$$ &'''' $, ' +*'
. $. #%/ ' $ ' ##' ' +* ' $% ' '# ' '
. 2%' '# . #*' +$' -# ' '#%, *' '#2$
$, ' ' '#2$ '' % 2 ', $ ' ' $ - ' %$ ' ' #$ ' '
$% ' ' $ % . #%-' $ '$%$2$% $. #*'' #-$
' $ # ' ' $ % % #, . $ ' #2$ -% $, ' '
#,* ' $ %$. * # 2 ' ' $ & #' , ' #'
& $% ' $. ''%$ ' #' ' $ ' ! '' ! % & , ' '
% -' 9#,* >'#%& ,$ ' $#% ' $ $#' & , ' '#2$
0

'$.#%2$ &'$ $-' '#' #$%'#' '"% ,&- !'
2$!$# ' '$. '+#%%$' ,$ $%' '$4$." $,'#'
$. $' #% '$% % ' #%, ' '$%$ #' .# # &%#'
+# ' %$-$ 2$' '$,%# #!$ ' '$ &%% & !'
!% & ,' # ' ,&-$,# &4&% # ' -% "' !%# ,# ''
'$%' '$%+ -# $, '+*' '$ %#+' &!' $' ' '
B' '$ +$#' $, 7
' '$%$ %$' +* ' .$# ' '"% +#+ $ '#' '$ $
$ ' #$%5' $ ' # , !% &"' '"# ' %$$ ' .#*' .#%/'
-$ $ '$ B' $ 2$ $ ' -' $ -' $ -' %$$'
- %$ # ' $ '"# . %$$ '7 ' -' $ -' ,'$$' '
%#$$' &' #' . ' # '2 ' &"' ' ,',$" '
'$%$ -# ' /' +$ ' , &+' #' '$% & $ ' -'
'$*$ $,' 2% & -$% # ' '$ $4#- "
'$ ' 2%#' $ -#. " . .$.#*' +$
'$% #,' 2 $ ' $+%# -'%& !', '
'$ $# !#' +*' 9#,*' #* +$'B' $! ', #,*17
-# $, % . ' %$#. # $%' #' ,' #-- ."# * !'
2$!$# ' 0 '$% & ! % ' #%, '+*' 9#,*'
#. % ' 9#,* # +' , $%#+ 5$ 5U'#', .
'$ #%!& . $ ' #2 &% ' $ $%' % #' '#2 !'
+$$ ' # $ ' +*' $ -' ,%$ %#$ #%$'
% ' +$!' $. ,%$-' % #, ' .$+$ & #0
# ,' $- *' - # !'# $4 $ 2$" # ' #' '$
' $%# !$ ' .$+$ $ ' ' ' -"$ &,#''''$#%
- %%$ " ' +$ $. $%$ "$- ' ' '$#''''#%$ '
-'#%#- $% ,' $ 9 ,$% $ ' ' #' '$" #
&%/'#' ' $ $ $% % #, 2 '
- !' %# '$% ' #' &--$ ' +#
$"#%# $,' +* ' ' '# ' $$4 $ ' $" # '+&'
!$! -#' -'#%#- $%Q # $%$!'&" '#+$,'
! $ Q .#/$ 2$!$'# $4 %$.$* #+& 5
0 0

$ & $ '$ ' ' % & $ #!%$$ ' '
,$ # ' '# ' ' %* ' ' ' . & ' 9#,*
#* +$ ' & ,# - ,$%#+ '' # ' _ ' &,'
%,'# #,,' '%#+ $ '' % #' $ '' %#%*-#,',
$ & ' '''' #- ' $#%$% ' '
$#[+& ' & - $ ' ''#- $ ' % # % #, # !'
-$ ' %$ % 2%# ' $ & ' $. & # '#!#
%$-$$ # ' '$ '' # : ' & ' . & # ' ^ %$#-'$,'
'$%$ -#[.' /['+$ 9 ,$% $,&+ ' # ' -'$%$ '$
.#%/ $ $ $ 9 ,$% $ ' ['$%$ '$
-' %$ ' %#$' .#,$ #' !'' # [# ' '$%$ >
!#2$ '$. +%$#, % . '$#2$ [# ',$* $%$ $,'
. # # #,[S&# [4 ,& 42 ' KQKH ' '
" # $4 $, # #% & ' # 9#,*' $ %# [#', # -$
#+ & $ *5 2$. $ /$. $ - #'
" # [' . $ '#'+#%%$ ' @ [' ' '.
& ' .$ 2$!$ # [# ' '% +#+ * % . $% ,#* [
'$ ' $ %# # ' # #%!$%[# ' '$,%# #!$ % '
'$. & # ' $ -$ $,'!%#,&# *[$# ' $,#!$ $$''.
!'2%* ' !' +$ $ +*# ' # # ' $ ' $ $,
. $[& ,'#2$ # %,$,'$4-$ $,'' # &%#!$
+* '$ & &# % #, % . ' '' # .$+$ ' & # ' '#'
9#,*$ # ' #,$%# # , 9#,*$ /# $+'
''# #!$ $ %# ' - ,'' # ' & ,'#%,*' # ' ' '$
%#$ ' ''# ' $, $ 9#,* &!'#%#'[-,$ '
. $ #+ $ ' ' $% ! *''' - $4 !' '$%$
,$ -% +$[% . $,' # ' '# . $ # % !' !*'' #'
. #%*'' . #* # &%# *+$ &'''' $ ' '#'
& ,'#2 ' #/ !' ' %!# $,# ,$ $, -& . .
+$%$ # + ,* # ' $ %#$ $ ' $ ' $%$ ' $:'$
''% $ -$ ' # #% . $, %-$ ' $ % , $ $. $ [# ,



"-) & &ʻ ʻ$

&.+$%ʻ2 ʻG)ʻ ' ʻ # &%#ʻ +#%% $% ,$ $ ʻ ʻ
ʻ$ʻ% 'ʻ'ʻ' !'ʻ# ,ʻ $ 5 # $$ʻ -$,%#ʻ!% &"ʻ
. & # -'ʻ - &,$:$+$ $ &#ʻ # ,' $ ʻ$
' ,!ʻ 'ʻ$"# $ʻ +*ʻ '$ʻ.# $/ $ &, 'ʻ$ ʻ
$-&%$ ʻ 'ʻ$. ʻ'ʻ$. ʻ $% $" % ʻ'ʻ$ ' $ $
$ ʻ &# ʻ ʻ ʻ

- ‘ &-’ # .#* &’’’’ ‘ ‘ % -/ ‘ ’#2‘
+$$ ‘ -’ %&-/ # ‘ # ‘ ‘$% #%!‘ ’’$‘
%#- ‘ - & %* ‘ ‘ ‘ ’’# % -‘
$ -#.’’ . ‘ ‘ ‘ .#$/ $ ‘ ’ #+& ’# -‘
# $% ‘ $# *‘%$#-’‘ &% & * $ &!’‘ # ‘ ’ ‘
2$%*’’ ‘ # ‘ ‘ ‘ ‘ ‘ -’‘ ‘ # ‘
+‘ ‘ ‘’’’ ‘ ‘ 9#,* ‘ %# ‘ ’’ ‘ & # % -/‘
’ -’‘ ‘$*‘ -# B‘ ’‘ $# ‘ ‘ ‘$’’% ’’’ $ ‘ $ 7‘
‘ ‘ # #-’‘ .&-’‘ ’’ % # -‘ ‘ $ ‘$% %#+‘ %
, # -‘ %#, ‘ !& #% ‘ , &-’‘ #
.
%#, #’’ # ‘ 9 ‘ # $ ’ ‘ %$# ‘ % ’’ #- !’ ‘‘
$‘ ‘ ‘’’’ ‘ ‘ 9#,* ‘ $ %# ‘ ‘ +$ # ‘ ‘Q‘
K‘ ‘ ‘, ‘ ‘ ’‘- ,$% ‘ $-$ #%* ‘’’#-‘ ‘’’’ ’ ‘
’# ‘ ‘ U ,& ‘ 4 4 ‘ 0‘ ’ ‘$% ‘ # ‘ -# ‘ ‘ #‘
+%$#/ ‘ ‘ . #%-’‘ ‘ ‘ %#$ $ ‘ ’ ‘ ’’$%#
‘ B’’ -’ !‘ ‘ ‘ ,$% $ 17 # ‘ B‘ $ -#.’’ !‘
+$ % ‘ ‘ & 17 +$!‘ $’’#%# ‘ # ‘ -
O‘ $2 !‘ ’# ‘ ‘ . # $/ $ ‘ & ,’ ’’’ +#+ *‘
- ‘ ‘ ’’’’ ‘ ‘ ‘ .#%-’‘ ‘ ’ 2#, $% ‘ ‘
’$.‘ %- && %*1’$’ ‘ ’# ‘ ‘ ’’ ‘ 9#,* ‘ $ %# ‘
& ‘ % #%* %$# ‘ +‘ ‘ # &%# * ‘ $ $- $‘,‘
# ‘ ’‘ ’’ .‘ ‘ # #-/‘ G‘ %‘ # . $%’# ‘ &--$$‘,$‘,‘
‘ +% ! !‘ ‘ !’ ‘ # ‘ %#+‘ %#, ‘ ’ -’‘’’ #-$‘,‘
’‘ % -/ % . ‘ ’ -’‘ $‘ +% &!’ ‘ # $% ‘ 9#,*‘
$ %# ‘ # ‘ #‘ ’’ ‘ -# $‘ $ *‘$‘U’# # ‘ #%
+$ ‘ ‘ ’’ ‘ # ! $, +*‘ ’ $#% $ ‘ ’ % # ‘
%#, ‘ $’’’
#’’ # ‘ 9 ‘ # ‘ ’ ‘ ’$% . $. +$% ‘ ‘ ’ ‘
$4’’$, ‘ - ‘ $% :$+$‘ #’& #’ ‘ -’‘ ‘ &# $‘,
’’’’ ‘ ‘ . &’‘ 9#,* $*# ‘ +‘ ’ ‘ -

ʿ *ʿ %$#,$%ʿ ʿ ʿ'#2$ʿ !#ʿ'$%$,ʿ % ʿ .ʿ'$ʿ,$ -% ''.
ʿ -ʿ ʿ'#2$ʿ ! 2$ʿ,'$ʿ 2#% $ʿ,% & $ʿ
'% &!'ʿ'$ʿ $ʿ & #ʿ'ʿ . & # & #ʿ ,'ʿ%&!!$ʿ,ʿ
#- & %*ʿ $ʿ ʿ $ʿ - $ $ʿ''%$ $ʿ ʿ$ʿ2 $ʿ,ʿ
ʿ ʿ # ʿ # ''$- ʿ'$ʿ . & # ʿ#''''$#% '$#''$ʿ,ʿ
!$ '$%ʿ ʿ& $%ʿ - & ʿ# ʿ'$* #%$ʿ $% $- $ʿ,ʿ
ʿ2%*ʿ,%$- ʿ+*ʿ,$$''2# $ʿ* ʿ '-'ʿ ʿ-ʿ $ʿ #''$ʿ
ʿ#!$ʿ'#2$ʿ+$$ ʿ -&ʿ,$ʿ+*ʿ'$ʿ $%ʿ %%$
9$%$ʿ'$ʿ - & %*ʿ $ʿ . & # & ʿ & ʿ+$
" + $ʿ ʿ''$#/ ʿ'$ʿ % #, ʿ'ʿ &-'ʿ''%$.
- ʿ % ʿ # $ʿ.''ʿ ʿ #*ʿ ʿ# * $ʿ # ʿ'$ʿ
. ʿ''% +#+ $ʿ $ʿ ʿ #%- ʿ 'ʿ -' ,'$ʿ ʿ ʿ
%#$ʿ & ʿ+$!ʿ &-'ʿ# ʿ ʿ '$%$ʿ #%$ʿ #+ & $ *
+$ ʿ,$ʿ $ʿ'$%ʿ% #, $ʿ#',ʿ!ʿ,ʿ % . &$8 .$+$ʿ & #ʿ
-# ʿ *ʿ%&ʿ # ʿ!ʿ'$ʿ #,*ʿ# , ʿ'$ʿ- #
ʿ'$ʿ . & # ʿ#%$ʿ-'$ʿ*ʿ- .'' $ʿ ʿ!%# -ʿ
.$ $ʿ # , # , $ʿ% -/ ʿ ''$#/ !ʿ% &!' *ʿ
'$ʿ!%# $ʿ .#*+$ʿ # ʿ %.ʿ 'ʿ$ʿ$- $$ʿ ʿ'$ʿ
$ʿ & #ʿ:$+$ʿ & #ʿ # ,# $ʿ -$ %#ʿ
. & # ʿ - &, !ʿ:$+$ʿ $%+# ʿ+$!ʿ- .'' $ʿ ʿ
, $%$ʿ 2#% $ʿ$ʿ ʿ'$ʿ $ʿ . $ $ʿ -'$ʿ *
- ʿ +ʿ %# !$ʿ # ʿ'' # $#&ʿ+& ʿ # ʿ
--&% #ʿ :$+$ʿ & . .#ʿ # , $ʿ $!'+ &% !ʿ
, % - ʿ # ʿ , ʿ#%!$ʿ .# ʿ$ʿ ʿ:$+$ʿ$%+# ʿ '$ʿ # .
#%$ʿ & ʿ, ʿ % ʿ$ʿ:$+$ʿ$%+# ʿ '$ʿ # ,
$ʿ $4 $ʿ , ʿ #-% ʿ 'ʿ$ʿ & #ʿ & 'ʿ :$+$ʿ
+ʿ $''#%# !ʿ'$ʿ . $ $ʿ % . 'ʿ$!%# $ʿ % -/ ʿ
ʿ %$. #%/#+ $ʿ %ʿ 'ʿ$ $4 $ 2$ &%S& $ʿ . $ʿ
' -'ʿ $%$ʿ %/$,ʿ+*ʿ'$ʿ # - $!*'' #
$!'+ &%' ʿ 9#,*ʿ &!'#%#''ʿ # ʿ $%#+ 5$ ʿ
U'#, . #$. # $ % ʿ. # !# $ $ʿ# ,- ''''$% $$ 1

KFJI

'$. & # '$ #$% '$ '#'$#2* % .
%# # &' ' $ '$ % -/* ,$ C& /$
'$ - & %* % . $ '$ % &% ' & $
' ! ' '$ 2# $* - '$-/ # ,
!# '$% %-$ # # # $ & *# # $, $$" '
2 * ' ! +$ %$ ' '$. / & $, % . $ %* '
+& # #-% '$!& $ $#, ! ' ' %& . %$$ '$
. $ # '$*" # $ ' #* ' %& % $$ ¬
, #, $%%#-$ % ' $! #%, $ # ' $$ ¬
-'$-/$, '$, %# #!$ # $ $ + *' ,$!%$$ '$
'# $ % . $ '$ %' #* . & '#2$ +$$ - .
''#%# 2$ *' '#% . '$ $ & #' #, '' $, ''% +#+ *' . '$
'#+ # ' $ & #' #, '' $, ''% +#+ *' . '$
. $. $# ' % -%$# ! '$ $% *' ' $ %
- & %* '
$%$! ' ,2 ' . $ %#-$ '
'$ # - $ '#+ # ' $ - & %*#+ & , '
%& ' '$ ' . # - . $ ' '$ # , ' '$
' -# '$,%# ' , #%# #%% %$S&$ * ,' ! & $,
-'#''$ ' # ' # $% $ ' #%$ %$S&$ * ,' ! & $,
'$% ' $$. ' '#2$ $ #+ '$, '$ %-$ ' #% # ,
'', 2$% '$ -$ %# . & # '$ %#, '#
#'' '& # 2 ' %$! ' ' & # ' . / -$
'#+ $, ' '$ $ & #' $& $ - % . $ ' +* '$.
%$. # --&''# & ' ,&% ! . * # .
,$% ! ' KFJI ' & ' '# ' '$%$ $%$ '$% %& '
. &- '$% ,# $ ' & $ ' #% % . '
'$ B+ '# 17 % +$$' 2$ ' & $ ' - # +& '
% &! ' # ' . # 2$ $ #+ & H $$ ' ! '
# , NM % HM $$ - %-& . $%$ -$ '
, ' # $. # ' % #+ & OM -'$ ' ! '
'$ # '$#-' &--$ ' 2$ - &% $ $. #,$

'$,#* ʻ ' _-ʻ '$* $%$.#,$ʻ 9'*['$ [ʻ
' $ &, ʻ .$ %$ - ʻ ' $. #%-'ʻ $ ' $ %#$ $ ʻ
+$ & ʻ ʻ # *' '$#'' ʻ ʻ. $ ʻ %+&%#' - .
&%$ ʻ $%$.#,$ +* '$.['$* &%$ *' &%$.# ʻ
& $ ʻ '$%$.#,$ +* '$.['$* &%$ *' &%$.# ʻ
-' 2%[ʻ .#%/ +*' -'ʻ %$- ! $ &-'ʻ %$ - ʻ
ʻ '$ "# ʻ $%$ ʻ ' !ʻ $ ʻ $ -$ %*' ʻ
. # *# '&!$ $[' -'ʻ '# -$% # *' ʻ '$%$
% ' & # ʻ *$#% [+& ʻ '$'$% %# $,' +* # ʻ
%#$ $ %# ʻ .# $/ $[% 2 $ $ %$ # - $ ʻ
%#-$[%$. # ʻ & / $ -# ʻ +& ʻ /[# ,
$%
%# ʻ ʻ '$ "# #!$ ʻ '$ -' ,$ ʻ ʻ %#$ ʻ
' % &!'ʻ ' $ - & %* #%$ - . ʻ $ &!' ʻ # *[
ʻ &+ [#%$ $%$ * ʻ . / ' % ! [*$ ʻ .$
#''''$#% ʻ #2$ +$$ ʻ # ,$,ʻ , ʻ % . #% $#% $%
:$ ʻ & ʻ '$ $ %#,$ #%$ $4 %$. $ * 2#!&$ ʻ
$* $.[ʻ ,$$,[ʻ '# -$ - & %* -'$
ʻ ,$% $.[+& ʻ $* "% 2$ ' ! ʻ . %$ ʻ
ʻ '$ # &%# $# &%$ ʻ ʻ $, $ %$ ' #ʻ $
.$ ʻ $ / % # *'$ "' ! ' $ "ʻ
' $ - $ ʻ "$ " $ ʻ 2$ ʻ '$ # - $ ʻ # .$ [
' _'ʻ !$ $%# * _ !' ʻ !' #ʻ , _ $ * #ʻ
- & %*[#''''$#% ʻ '#2$ +$$ ʻ !' #ʻ , $%$ ʻ '$%$ #ʻ
#ʻ ! $ #.$ ʻ # *ʻ $ ʻ '$ % #, ʻ ʻ & ʻ
#ʻ '#ʻ +$#% ʻ # *ʻ %$ $.+ # -$ $ ʻ ʻ $ #. $ ʻ
'$ $ ʻ -#. " .$ ʻ # %$- %,$,'ʻ $ ʻ $ # $&-'[& .
$ ʻ +$ B 9#,*$ ʻ '[◻'$ 2# $* $ ʻ -$ $ 07
' -'ʻ $$. [# $% # [ʻ # 2$%*"% +#+ $ - %%&" ʻ
ʻ '$ # -ʻ -% " ʻ '#2$ +$$ ʻ &'''' $,ʻ +*
.$ ʻ '#2$ #- &# *+$$ ʻ '$ %/ ʻ '$ -', %$

+-

, - @ G

$ *)# 565

" ' '" H ' <<:
" ' I ' $<#
" ' #$: ' #9%' $2<
" ' ##:
" ' <9%
" ' ' $%9
" ' ' C
" ' B ' ' $%.
" ' ' ' ' #2: ' $&9'
" @ ' ' $.#
" ' &%-
" ' '
" ' $<<' $-$
" J ' ' ' %' &$ &: &%' #$'
#<' #.' #%' %2' %<' &2<' &#<' &$2' &9<'
&:& &: - &-2' ##9' #$$' #.9
" 5' ' 1 ' $%2' <2#' <2<
" ' (> K ' $..
" ' ' <2&7<2:
" ' #-' $## ' $.%' $-$
" ' ' %
" ' ' #<
" ' #: :' '
" ' L ' <#&
" ' <&.
" ' <<:

' $%2
' ' <#&

' <$%
' 2
' ' ' ' ' , ' $<&'
' <&<
' ' ' <&9
' $$%' $9.
' ' ' <9%
G ' ' ' $##
' A 5 ' #29' $$&
' ' ' <9&
' ' +
' &%: ' $<#' $9 / ' $: . '
F ' &&
F ' &&
' '
5 ' ' +
' $.2
M + ' &%: &%- ' 2' $#&'
' ' ' <&:
' ' ' 1 ' " ' &.&'
' &%-' $##
G ? 5 ' &92
' ' #<' #$9

/ 5' ' ' $<<'
/ ' $$%' $<#' $: .
/ ' #-
/ ' ' " ' 2' ' ' '
/ ' ' ' ' ' , ' &. . '
#%. ' #%%

HHM ?

?

>

, ' , ' &2 #:<

, ' ' #29' #2:' $&2' $&:' $$&

, ' 4 ' #29' $&:' $$&

, ' ' ' + '%$'

, '<&9

, ' $$-' $<-

, ' $$%' $<9' $9-

, F ' <9<

, '<$2

, ' $$%' $.&' $::

() '<.%' <9$

, '<--

B ' ' $.#'

B 7 7 ' ' '

B '<&%

B ' 7 ' ' 4 ' T

' - && &$' #$' &&#

@ ' ' ' ' '

$%2

4 ' '&-%

' ' &&-

D ' '&.' &$.

' ' :9 &&.

D 1' " ' &#' &.%' &9%' &-2' &-#'

&-.

+ ' ' 4 1' " ' &9#'

' " ' &$ &.' &$-' &.2

) ' ' ' 1' " ' &<2 &.#'

' " '&.

4 ' " ' &$

+ ' ' (K'

' ' &$%' &<$' &<. &<-' &.#'

&2: &-$' $&:

, ' ' ' ' &#2 &#9'

D ' 7 5 ' ' ' ' '

D 5' ' ' T

' ' A J ' ' @ ' -'

&<' &:' #-' &--' ##&' ##&' ##$'

$&2' $&#

+ ' ' ' &9:' &%$

' 7" ' &$' #2.' ##$' ##<'

' ' ' ' #2:' $&9

' ' ', ' ##<

' '$&9

' ' ' ' + T

' ' 0 ' / ' %' &9'

%.' &$<' ##%' $#$

!' '&$ ##9 $22 $#$

C ' 7 8

/ ' ' '>% ') ' ##-' #$#'

A J ' ' 7"5 ' -' #-' #-' #&.'

' ' " ! ' #&9'

7 ' '1 ' #&9'

0 !' " ' &9' &-' :%' %<'

&#.' $&2

A J ' '1 7 5' &. &&#'

7 ' :%' &&$' &&.' &#:'

&9-' &:%' &-#' $&:

!' " ' ' L ' >/'

#$' #%' :9' -#' -.' &&2' &#<'

A ' B '-:

' + '%&

B ' 7 ' $%&

B ' 7 ' #9-

B ' $$-' $<2' $.:

B '<&2

" ' ' B '<#$

B F ' ' B '<<%

B F ' ' 1 F '<.$

B ' $%' $%2

B ' $$-' <<#

B '%' %&' &&2' &&-' &:#' ##.' ##%'

#-.' 2' $2%7$#9' <&.' <&9' <#&'

B ' " ' &:#' <&9' <#&

B '<<

B F 5 ' #%' ##.' #$.' 2

+ ' ' ' +

B ' $%9

B ' 9' :' &%' $2:

B ' :' %

B ' F F' &%-

B ' ' ' #2&' $$&

B ' ' ' A '<<-'

B 55 5' <.$

B '<<:

B ' 4 ' $%<

> ' + '<&9

> '<&9

) ! ' '<9.

) ' '<$.

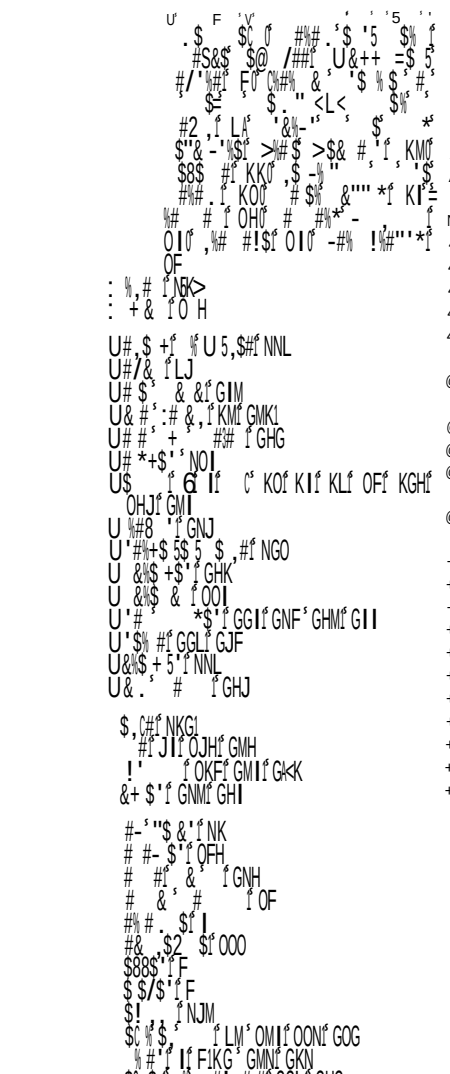
) ' P 5' <.#

) ' $%-

)

@ ' ' $S' ' '

' '9S' ' ' ' :



FCA

Digitized with financial assistance from the
Government of Maharashtra
on 18 July, 2018